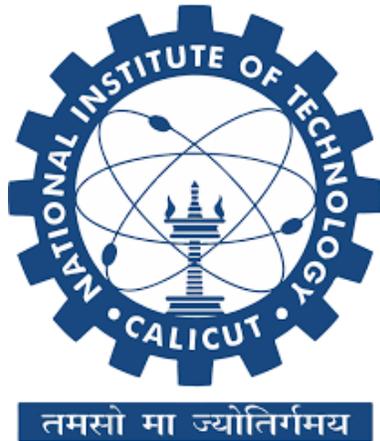


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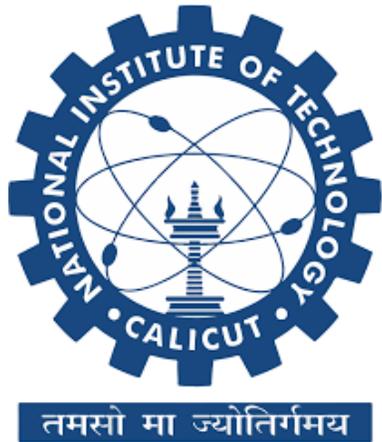


Faculty Expertise

DEPARTMENTS

- Architecture and Planning
- Bioscience and Engineering
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering Department
- Electronics and Communication Engineering
- Mathematics
- Management Studies
- Materials Science and Engineering
- Mechanical Engineering Department
- Physics
- Humanities, Arts and Social Sciences

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Faculty Expertise
Department of Architecture And
Planning

LIST OF FACULTY

- **Dr. P.P.Anilkumar**
- **Dr. Naseer M A**
- **Dr. Kasthurba A. K.**
- **Dr. Chithra K**
- **Dr. Mohammed Firoz C**
- **Dr. Shyni Anilkumar**
- **Dr. Bimal P**
- **Dr. Anjana Bhagyanathan**
- **Dr. Amritha P K**
- **Dr. Deepthi Bendi**
- **Dr. Sanil Kumar**
- **Ar. Ritesh Ranjan**
- **Dr. Susanta Banerjee**
- **Dr. Jayasree T K**
- **Dr. Kiruthiga K**
- **Ar. Kiriti Sahoo**
- **Ar. Samiksha Srichandan**
- **Ar. Abhishek Kumar**
- **Dr. A. Manoj**
- **Ar.Kuladeep Kumar Sadevi**
- **Ar.Vivek Kumar Chenna**

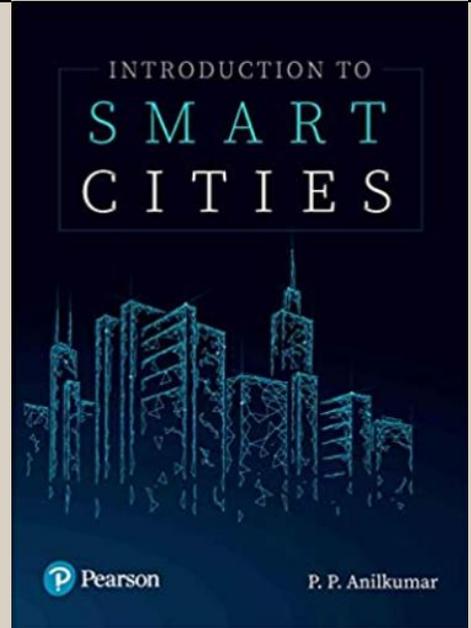


Name: Dr. P. Anilkumar

Qualification: Ph.D., (IIT Madras)

Area of Research:

- Sustainable Cities and Urban development
- Smart city planning
- Environmental Planning
- Urban Infrastructure development issues
- Urbanization and sprawl management
- Urban open space planning
- Landuse impacts on the Urban environment
- Coastal cities and their specific issues
- Currently guiding PhD scholars in various urban planning and architecture domains such as sustainable building concepts, urban sprawl, open space planning in smart cities and smart city governance



Designation : Professor
 Contact Number : 0495 2286903, 0495 2800785
 Email : ppa@nitc.ac.in
 Website address : <https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/97bf5b23-1daa-485f-a621-e8cdfc666326>
 Google Scholar ID : a9rVnbEAAAAJ
 Scopus ID : 22984362600
 Orcid ID : 0000-0002-2255-2688



Name : Dr. Naseer M A

Qualification: Ph.D., (IIT Kharagpur)

Designation : Professor

Contact Number : 9188700657

Email : naseer@nitc.ac.in

Website address : <https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/0f200800-e22b472d-833f-3fab4ff8f738>

Google Scholar ID : y6mLXQcAAAAJ

Scopus ID : 36841846000

Orcid ID : 0000-0003-2968-4381

Area of Research:

- Transportation Planning
- Remote Sensing and GIS Application in Urban Planning
- Building Science
- Thermal Performance of Buildings

Current Research Areas:

- Walkability in Urban Area
- Land value in Urban Area
- Port-based Containerized Goods Transportation
- Thermal Comfort Study of Kerala Traditional buildings
- Thermal performance of building roofs

Important External Consultancy undertaken:

- Tribal Hamlet Development at Attappadi, Palakkad, Kerala
- Administrative Block for University of Calicut
- Commercial building for Koyilandy Municipality
- Acoustical and Interior design for Municipal Town Hall at Koyilandy



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Kasthurba A. K.

Qualification: Ph.D., (IIT Madras)

Designation :Professor

Contact Number :9946006309

Email : kasthurba@nitc.ac.in

Website address :
<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/0b819059-4598-486a-87c4-7cabc3407eb7>

Google Scholar ID :

Scopus ID : 6506926192

Orcid ID :0000-0001-6160-4068

Area of Research:

- Urban Renewal and conservation
- Heritage management and Tourism
- Architectural conservation
- Energy-efficient building
- Green Architecture
- Sustainable constructions
- Environmental-friendly design approaches



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Chithra K

Qualification: Ph.D., (NIT Calicut)

Designation : Associate Professor

Contact Number : 9633716494

Email : chithrak@nitc.ac.in

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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/b0b268f4-d5d3-4b84-b01d-af35122d60dd>

Google Scholar ID : SNfc0IYAAAAJ&hl

Scopus ID : 57216709345

Orcid ID :0000-0002-6562-3415

Area of Research:

- Sustainability assessment system development
- Impact assessment studies
- Green building rating system development
- Architectural Design Pedagogy
- Shape grammer studies
- Sustainable urban landuse planning
- Currently guiding PhD students in various urban planning and architecture domains such as urban open space studies, energy management, ecosystem services, shape grammar, universal design, and Architectural Pedagogy etc



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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name : Dr. Mohammed Firoz C

Qualification: Ph.D., (IIT Kharagpur)

Designation : Associate Professor

Contact Number : 9895254353

Email : firoz@nitc.ac.in

Website address :
<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/c9cd1bb0-67a4-4edb-8af3-3027e36ff650>

Google Scholar ID : 88vOQ_EAAAAJ&hl

Scopus ID : 57208471201

Orcid ID :0000-0001-5742-8989

Vidhwan 98094

Area of Research:

- Sustainable development of cities and settlements,
- Climate Risk assessment and resilience of Cities,
- Peri Urban studies,
- Quality of life and Livability in urban areas,
- Socio economic development of Cities.
- Urban Design

Currently guiding PhD students in various domains of Urban and Regional planning ,Urban Design, Social and Economic development of Cities, Environmental Management etc



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name : Dr. Shyni Anilkumar
Qualification: Ph.D., (IIT Kharagpur)

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Google Scholar ID :211A91oAAAAJ

Scopus ID :57221685680

Orcid ID :0000-0001-6233-4522

Area of Research:

- Housing and Habitat Planning
- Disaster Management
- Post Disaster Housing Reconstruction
- Climate Resilient Development
- Climate Vulnerability and Risk Assessment
- WaSH Infrastructure Planning
- Tribal Development



Name: Dr. Bimal P

Qualification: Ph.D., (NIT Calicut)

Designation :Assistant Professor

Contact Number : 88910 00580

Email :bimalp@nitc.ac.in

Website address :
<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/0a499682-3acc-42a7-9db5-a40dd34a2f5f>

Google Scholar ID :sJuBCK4AAAAJ

Scopus ID :57194384545

Orcid ID :0000-0002-9997-2859

Area of Research:

- Urban modelling
- GIS applications
- Smart city
- Building automation
- Parametric design
- Architectural visualization



Name : Dr. Anjana Bhagyanathan

Qualification : Ph.D., (NIT Calicut)

Designation :Assistant Professor

Contact Number :9495055300

Email :anjanab@nitc.ac.in

Website address :
<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/0a4d0970-dac3-4b34-951b-8cab0aa0aa09>

Google Scholar ID :YiAGmGgAAAAJ&hl

Scopus ID :[57201067585](#)

Orcid ID :0000-0002-2596-7619

Area of Research:

- GIS applications in Ecological Planning and watershed management
- Landscape perception and ecological design
- Traditional ecological knowledge and conservation with special reference to sacred groves
- Spatial mapping of societal attitudes towards the environment
- Urban growth patterns with reference to landscape ecology
- Ecosystem and human impact assessment
-



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name : Dr. Amritha P K
Qualification : Ph.D., (NIT Calicut)

Designation : Assistant Professor
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Email : amrithapk@nitc.ac.in
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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/8f6af5df-d820-4bde-89f0-41face575ecc>
Google Scholar ID : XbVe9VwAAAAJ
Scopus ID : 57190862491
Orcid ID : 0000-0002-2503-7120

Area of Research:

- Landscape Architecture
- Landscape Urbanism
- Landscape conservation and restoration
- Environmental Planning
- Sustainable waste management
- Currently guiding PhD students in various landscape, urban planning and architecture domains such as Green infrastructure planning, Solid waste management, Universal design, urban open space studies, Energy efficiency, Indian knowledge systems and Architectural Pedagogy etc .



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Deepthi Bendi

Qualification: Ph.D.,
(University of Salford,UK)

Designation :Assistant Professor

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Email :deepthib@nitc.ac.in

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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/cb9b5a0a-7666-4669-b26a-d26a60c62800>

Google Scholar ID :XVJ3PHIAAAAJ

Scopus ID :55189548200

Orcid ID :0000-0002-46196-789

Area of Research:

- Off-Site Construction/prefabrication
- Modern Methods of Construction and Operational efficiency
- Construction Waste Management
- Education and Sustainable Development Goals
- Design Thinking



Name : Sanil Kumar

Qualification: Ph.D., (IIT Roorkee)

Designation : Assistant Professor

Contact Number :8368108675/8439742643

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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/page/2>

Google Scholar ID :rzjSjxkAAAAJ&hl

Scopus ID :

Orcid ID :0000-0002-1781-4946

Vidwan ID : 388600

Area of Research:

- Wetland Management
- Wetland Planning
- Integrated Planning
- Architectural Pedagogy
- Urban Energy Modeling
- Currently researching subjects related to Wetland Management, Remote Sensing Applications, Architectural Pedagogy and Research Methods. Guiding PhDs on the subject of Urban Energy Modeling, Wetland Management, Urban Resilience, and Transit-Oriented Development.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Ar. Ritesh Ranjan

Qualification: B. Arch. (NIT Trichy)

M. Urban Planning (BIT Mesra)

Designation : Assistant Professor

Contact Number : 8797540945

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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Liveability
- Rural Development
- Artificial Intelligence and Urban Governance
- Climate Change
- Sustainable Urbanism, Leisure, and Place making
- Currently guiding M Plan students in various urban planning such as AI in Urban Governance, Sponge Cities, Water Positive Campus etc.



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Susanta Banerjee

Qualification: Ph.D., (IIT Dhanbad)

Designation : Assistant Professor

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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/090c7ca2-849e-4130-addc-e74e974ac20e>

Google Scholar ID : hQaVdGgAAAAJ&hl

Scopus ID : [57224145823](https://scopus.com/authid/detail.uri?https://orcid.org/0000-0001-8239-0898)

Orcid ID :0000-0001-8239-0898

Area of Research:

- Masonry Structure
- Earthquake Engineering
- Structural Dynamics
- Concrete Structure



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Jayasree T K

Qualification: Ph.D.(NIT Tiruchirappalli)

Designation : Assistant Professor

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Google Scholar ID : tuSdmO4AAAAJ

Scopus ID : 57221523105

Orcid ID : 0000-0003-3518-202X

Area of Research:

- Sustainable Architecture
- Climate responsive design and Energy Efficiency
- Thermal Comfort in built environments
- Natural Ventilation
- Computational Fluid Dynamics for ventilation and comfort
- Smart buildings and Building Simulation
- Green buildings and rating systems
- Professional certifications:
 - IGBC Accredited Professional
 - GRIHA Certified Professional
 - ASSOCHAM GEM Certified Professional.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. Kiruthiga K

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Google Scholar ID : eYv0W2QAAAAJ&hl

Scopus ID : 57192694948

Orcid ID : 0000-0003-4957-207X

Area of Research:

- Urban Heritage and Conservation
- Architectural Heritage
- Historic temple towns
- Urban Heritage Management
- Outdoor Thermal Environment
- Energy Retrofitting in historic buildings



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Ar. Kiriti Sahoo

Qualification: B. Arch. (NIT Trichy)

M.Arch. (University of Arizona, USA)

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Email : kritisahoo@nitc.ac.in

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Google Scholar ID : SAaglfYAAAAJ

Scopus ID :

Orcid ID :

Area of Research:

- Natural Ventilation Design and Thermal Comfort
- Green building design and certification
- Performance Simulation of Passive Design



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Samiksha Srichandan

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Email :samikshas@nitc.ac.in

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<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/33ef6ace-7d7c-49bb-9588-672f0286960f>

Google Scholar ID :

Scopus ID : 57418278400

Orcid ID : 0000-0002-1946-7618

Area of Research:

- Cultural Heritage Conservation
- Traditional Knowledge Systems and Sustainable Practices
- Historical Networks and Cultural Routes.



Name: Abhishek Kumar

Qualification: M.U.R.P. (NIT Patna)

Ph.D. - IIT Roorkee (pursuing)

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Google Scholar ID : u6CG3zYAAAAJ

Scopus ID :

Orcid ID :0000-0003-2930-9135

Area of Research:

- Heritage Planning and Management
- Urban Planning and Conservation
- Cultural Heritage and Built Environment
- Heritage Interpretation and Research
- Sustainable Cities and Indigenous Communities
- Heritage Inclusive Sustainable Planning and Development
- Urban Renewal, Heritage Precinct Regeneration
- Cultural and Heritage Tourism
- Architectural Heritage and Documentation



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Dr. A. Manoj

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Google Scholar ID : nDzbjA0AAAAJ

Scopus ID : 57322509300

Orcid ID : 0000-0002-4915-1219

Area of Research:

- POD and Math Modelling
- Computational Mechanics
- Reinforced Concrete Structures
- Pushover Analysis
- Structural Dynamics
- Bio Concrete
- Advanced oxidation process



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Kuladeep Kumar Sadevi

Qualification: M. Plan, B. Arch

Designation : Assistant Professor

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Email : kuladeepks@nitc.ac.in

Website address :
<https://nitc.ac.in/department/department-of-architecture-and-planning/faculty-and-staff/faculty/50f0b54c-8131-4396-9d63-9d013359d1bb>

Scopus ID : 57218224730

Orcid ID :0000-0001-8752-4031

Area of Research:

- Energy Efficiency in Buildings
- Green Building Certification and Analysis
- Passive Solar Design in Architecture
- Thermal Performance of Building Envelopes
- Urban Sustainability and Planning
- Carbon Emission Reduction Strategies for Buildings and Urban Environments



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Architecture and Planning



Name: Vivek Kumar Chenna

Qualification: M. Tech, B. Arch

Designation : Assistant Professor

Contact Number : 9891138909

Email : vivekkumarchenna@nitc.ac.in

Website address :

Area of Research:

- Construction Management
- Artificial Intelligence in Architecture Design
- Building Science
- Passive Solar Design in Architecture
- Thermal Performance of Building Envelopes



Name : Labeeba K

Qualification : PhD, M Des

Designation : Assistant Professor Grade II

Contact Number : 9167928324

Email : labeebak@nitc.ac.in

Website address :
<https://nitc.ac.in/department/architecture-and-planning/faculty-and-staff/faculty/6e05fc7b-ef6f-40ae-ace2-2aee7e328dee>

Google Scholar ID: hF_-0VkAAAAJ&hl=en

Scopus ID : 58739091800

Orcid ID : 0000-0001-7640-996X

Area of Research: Information Systems and Design

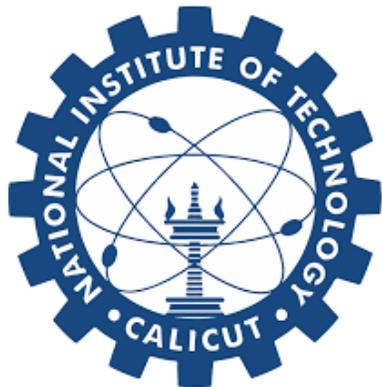
Area of Expertise

- Information Communication Technologies and Society
- Role of social media algorithms on behaviours
- Explainable AI and Algorithmic Literacy
- Algorithmic literacy
- Econometrics
- Qualitative research methodology

Current research

1. Games and Gamification in Urban Planning
2. Human- AI Co-Creation and Design Pedagogy

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



तमसो मा ज्योतिर्गमय

Faculty Expertise
Department of Bioscience And
Engineering

LIST OF FACULTY

- [Dr. Rathinasamy K](#)
- [Dr. Md. Anaul Kabir](#)
- [Dr. Rajanikant G. K.](#)
- [Dr. A. Santhiagu](#)
- [Dr. Suchithra.T.V](#)
- [Dr. Baiju G Nair](#)
- [Dr . Suresh PS](#)
- [Dr. Cecil Antony](#)
- [Dr. Ilanila I. P.](#)
- [Dr. Indumathi Sathisaran](#)
- [Dr. K. Gopal Shankar](#)
- [Dr. K. Rajasekhara Reddy](#)
- [Dr. Ravindra Kumar](#)
- [Dr. Saket Chandra](#)
- [Dr. Shabina Ashraf](#)
- [Dr. Tom Skaria](#)



Area of Research: Anticancer drug research, Cytoskeleton, Biophysics

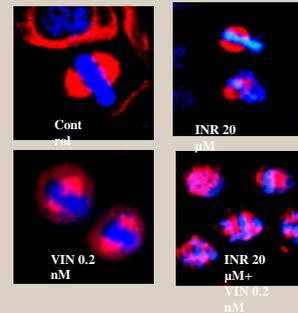


Name : Dr. Rathinasamy K
 Qualification: Ph.D., (IIT BOMBAY)

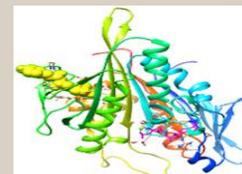
Designation : Professor
 Contact Number : 0495-2285455
 Email : rathin@nitc.ac.in
 Website address : www.nitc.ac.in
 Google Scholar ID : J-YDWvkAAAAJ
 Scopus ID : 8562189900
 Orcid ID :0000-0001-9685-135X

i. Identification and characterization of drugs targeting mammalian and bacterial cell division proteins

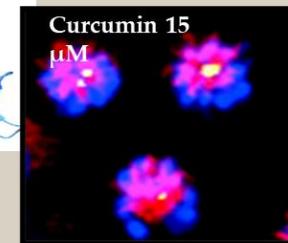
i. Anticancer potential of the natural products obtained from plants



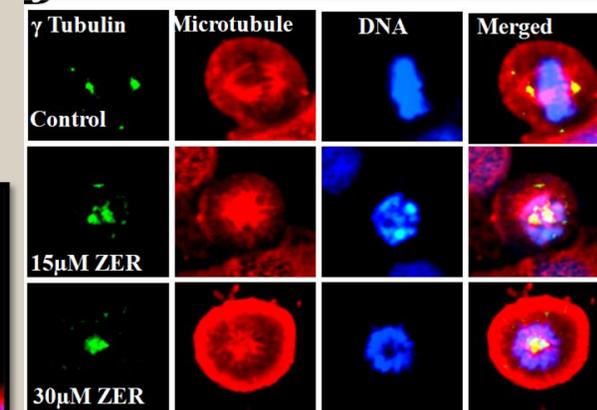
Indirubin binds to **tubulin** and potentiates the anticancer activity of vinblastine
Biomedicine and Pharmacotherapy (2018)



Eg5



Curcumin binds to **Eg5** and induces monopolar spindles .
Int J Biol Macromol. (2018)



Zerumbone isolated from *Zingiber zerumbet* inhibited cell proliferation through **tubulin** binding. *Cell Proliferation 2019*



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Bioscience and Engineering

Area of Research

Domain of Research: **Molecular Biology**

- ❖ Yeast Genetics: Molecular Genetics of *Saccharomyces cerevisiae* and *Candida Albicans*
- ❖ Genetic Engineering
- ❖ Gene Regulation
- ❖ Protein Folding
- ❖ Antifungal Studies
- ❖ Functional Genomics



Name : Dr. Md. Anaul Kabir
 Qualification : PhD (IIT Bombay)
 Post doc : University of Rochester(NY, USA)

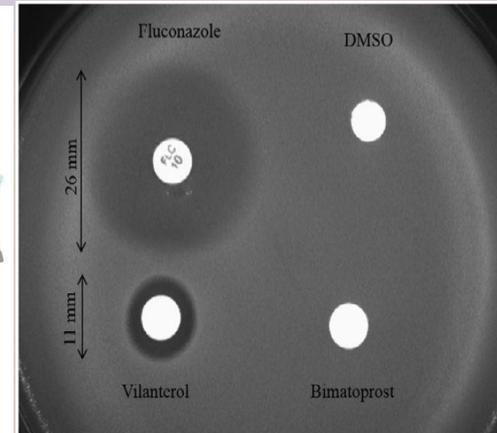
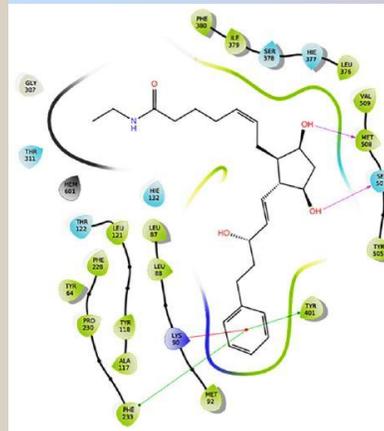
Designation : Professor

Contact No. : 9745009051

Email : anaulk@nitc.ac.in

website : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/34057a11-9559-4e30-9892-c2f606e76cd1>

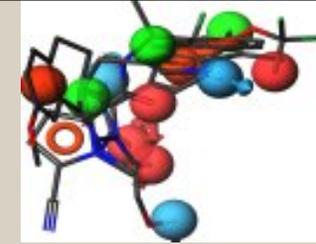
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Area of Research :

- Computational Drug Design
- Network pharmacology
- Cerebral ischemia



Number of PhDs & Post-doctoral Scholars (2018 onwards)

	Submitted	Awarded	Ongoing
PhDs	1	10	7
PDFs	-	1	-

Citation Indices

Citations	-	3281
h-index	-	31
i10-index	-	61

Patents, Conference Abstracts (2018 onwards)

Patents (<i>Accepted</i>)	-	01
Patents (<i>Submitted</i>)	-	11
Conference Abstracts	-	06

Publications, Books & Book Chapters (2018 onwards)

Publications	-	33
Books	-	01
Book Chapters	-	09



Name : Dr. Rajanikant G. K.

Qualification: Ph.D., (MAHE, Manipal, India)

Designation : Professor
 Contact Number : +91 495 228 5452 (Off),
 +91 949 520 4863 (Mob)

Email : rajanikant@nitc.ac.in

Website address :
<https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/196f1a9c-5ae4-4da2-b266-1c7ce35565e8>

Google Scholar:
<https://scholar.google.co.in/citations?user=vOpT0GgAAAAJ&hl=en>

Scopus ID : N/A

ORCID ID : 0000-0001-9754-997X



Area of Research: **Bioprocess technology coupled with molecular biology**



Name : Dr. A. SANTHIAGU
 Qualification : Ph.D., (BHU, Varanasi)

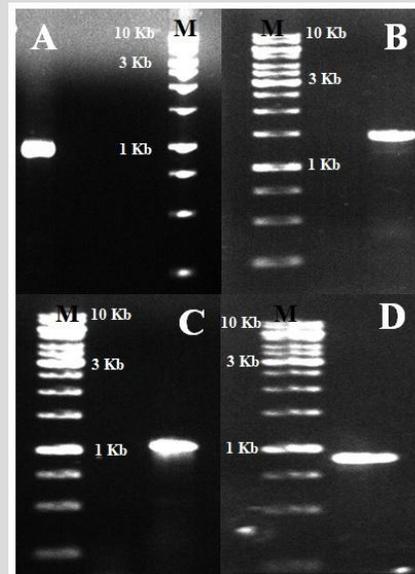
Designation : Professor

Contact Number : 0495-2285454

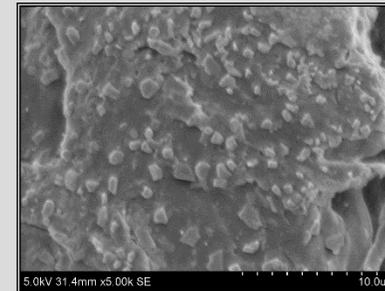
Email : asanthiagu@nitc.ac.in

Website address : [National Institute of Technology \(nitc.ac.in\)](http://National Institute of Technology (nitc.ac.in))

- i. Identification and screening of novel microorganisms for the bioproduction of valuable therapeutic products
- ii. Strain improvement through genetic manipulation of industrially useful microorganisms.



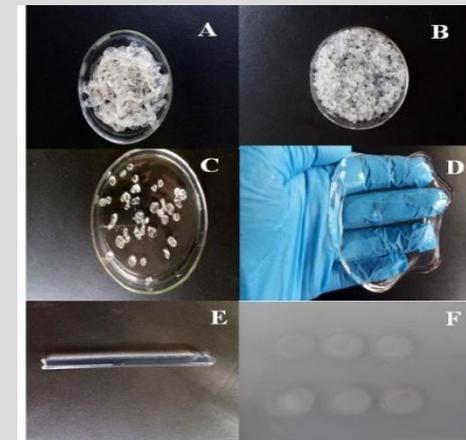
PCR products of Gel Q,B K and L



SEM image of Gellan gum



Ethanol resistant strain



Different structures of recombinant Gellan gum

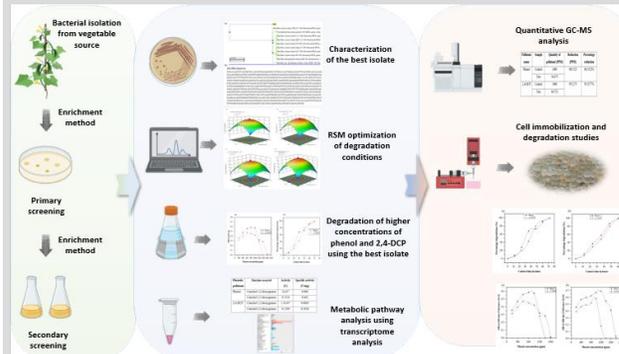
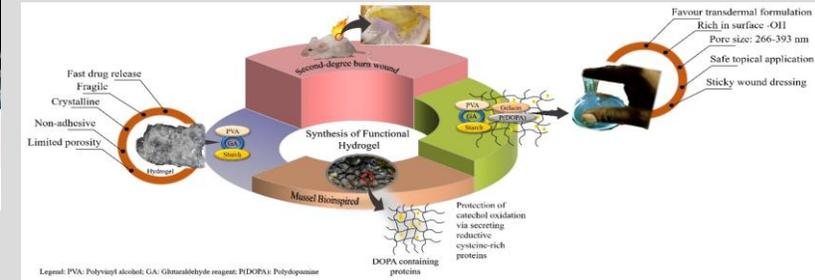


Name : Suchithra.T.V
 Qualification : Ph.D.,
 (University of Calicut)

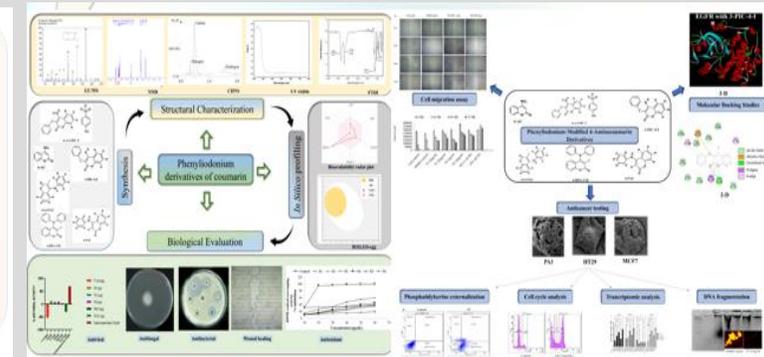
Designation : Professor
 Contact Number :9744244461
 Email :drsuchithratv@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/eed7a6ba-74d3-4719-9b62-a065a2c655c2>
 Google Scholar ID :0R8HuA4AAAAJ
 Scopus ID :6504257366
 Orcid ID :0000-0001-5274-937X

Area of Research: Microbiology and Bioprospecting

- **Bioprospecting:** Bioplastic, Bioadhesives, Bioleather, Biopigments, Biocement, Bioactive compound production, burn wound care bioinspired hydrogel, Artificial flavours
- **Bioremediation:** Plant and Bacterial MFC, PAH degradation, Aromatic Hydrocarbon, and dye degradation



Bioremediation of Phenolic pollutants



Bioactive compound research



Name: Dr. Baiju G Nair

Qualification: Dr.Eng Tokyo, Japan

Designation : Associate Professor

Contact Number : 7034011575

Email : bgnair@nitc.ac.in

Website address : [NIT Calicut \(irins.org\)](http://NIT Calicut (irins.org))

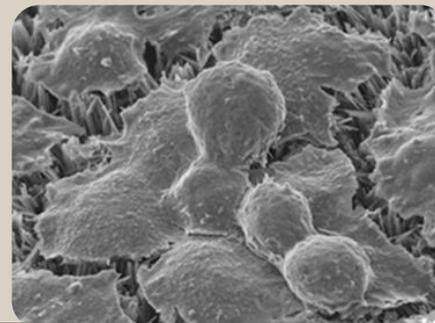
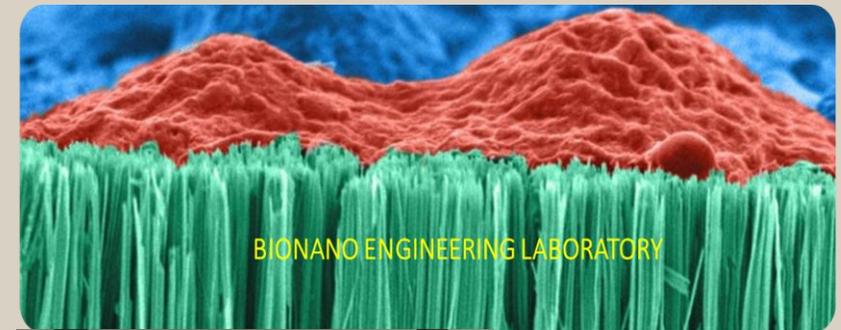
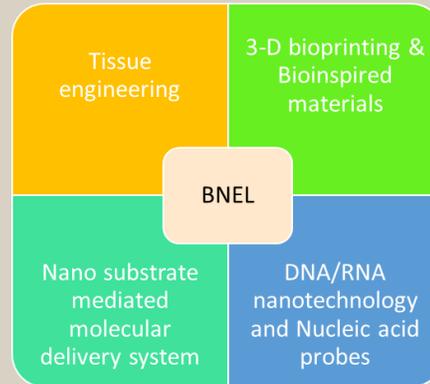
Google Scholar ID : BI00JwcAAAAJ&hl=en

Scopus ID :

Orcid ID : 0000-0002-1616-8807

Area of Research:

- Tissue engineering and regenerative medicine.
- 3-D Bioprinting and bioinspired materials
- Small molecules and stem cell technology
- Lab on chips and organ





Name : Dr . Suresh PS
 Qualification: Ph.D., (IISc, Bengaluru)
 Postdoc- Medical College of Wisconsin,
 USA Wexner Medical Centre, OSU, USA

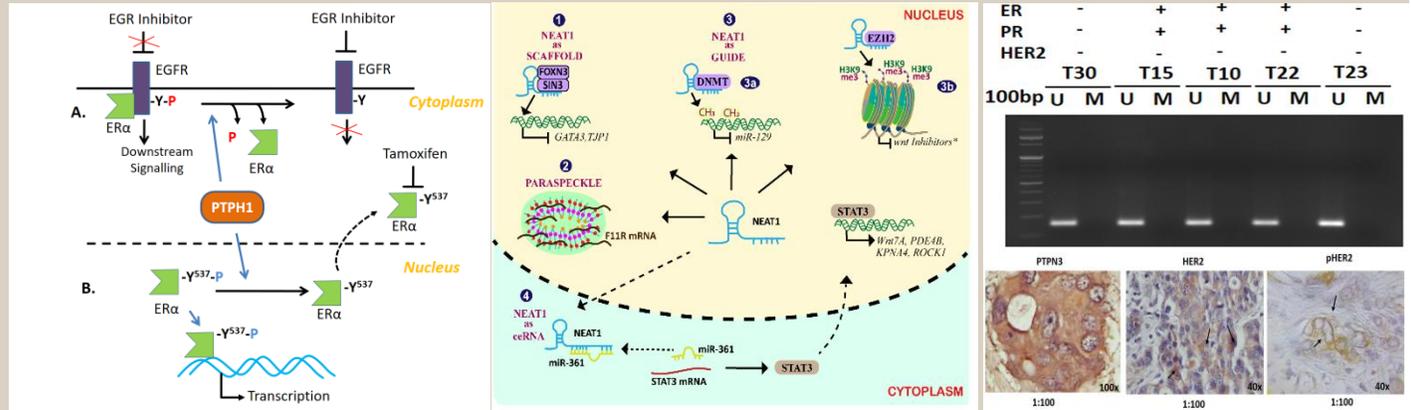
Designation : Associate Professor
 Contact Number : 8861939598
 Email : sureshps@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/b3ac86ec-ebb9-4d25-b909-bc9d005e57e0>

Scopus ID : 35312514900
 Orcid ID :0000-0002-6126-2974

Area of Research:

- Molecular Oncology, Cancer cell signaling, Epigenetics
- Non-coding RNAs in health and disease, Signal transduction Biomolecular interaction

Breast cancer signaling/epigenetics



Key Research Publications (Total Impact factor= 336.67 JCR Clarivate, 60 publications)

Nature Medicine, 2010; Journal of Biological chemistry, 2012; Molecular Cancer therapeutics, 2012; Journal of Cellular Physiology, 2019; Journal of Steroid Biochemistry and Molecular Biology, 2021; Journal of Molecular Structure, 2022

Funding support (Past & Present): DBT, DST-SERB, UGC, JSPS, I-STEM, DST-FIST, UGC SAP, DST PURSE, NIT Calicut (Completed projects-5) > 2 Crore INR

Area of Research:



Name: Dr. Cecil Antony

Qualification: Ph.D.,

(University of Delhi)

Designation : Assistant Professor

Contact Number :+91 7708877621

Email :cecil@nitc.ac.in

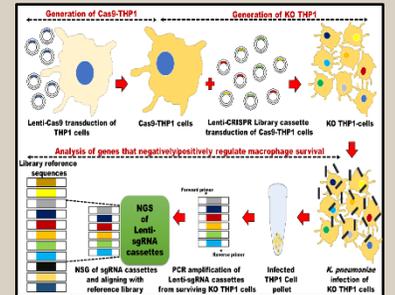
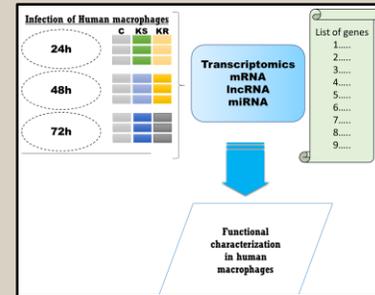
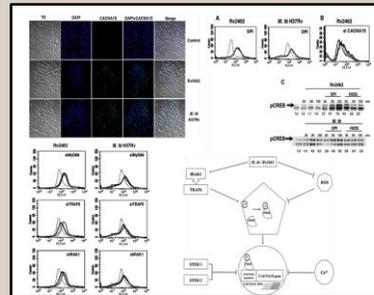
Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/233dd0d6-0bb4-4e25-bd61-2210583a57da>

Google Scholar ID : T9bCZzoAAAAJ

Scopus ID :36236806700

Orcid ID :0000-0001-7622-4586

- My lab is studying the host-pathogen interaction to elucidate the suppressor responses induced by microbial pathogens. my lab is also interested in isolating high-affinity peptides/antibodies against microbial antigens by harnessing combinatorial peptide/antibody libraries.
- We exploit whole-genome CRISPR libraries to identify host genes that modulate protective immunity against microbial infections.





Name: Dr. Ilanila I. P.

Qualification: Ph.D.,
 (Indian Institute Science)

Designation : Assistant Professor – Grade II

Contact Number : 9972299536

Email : ilanila@nitc.ac.in

Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/e7a05452-26cf-498a-a2fe-e66406a99c42>

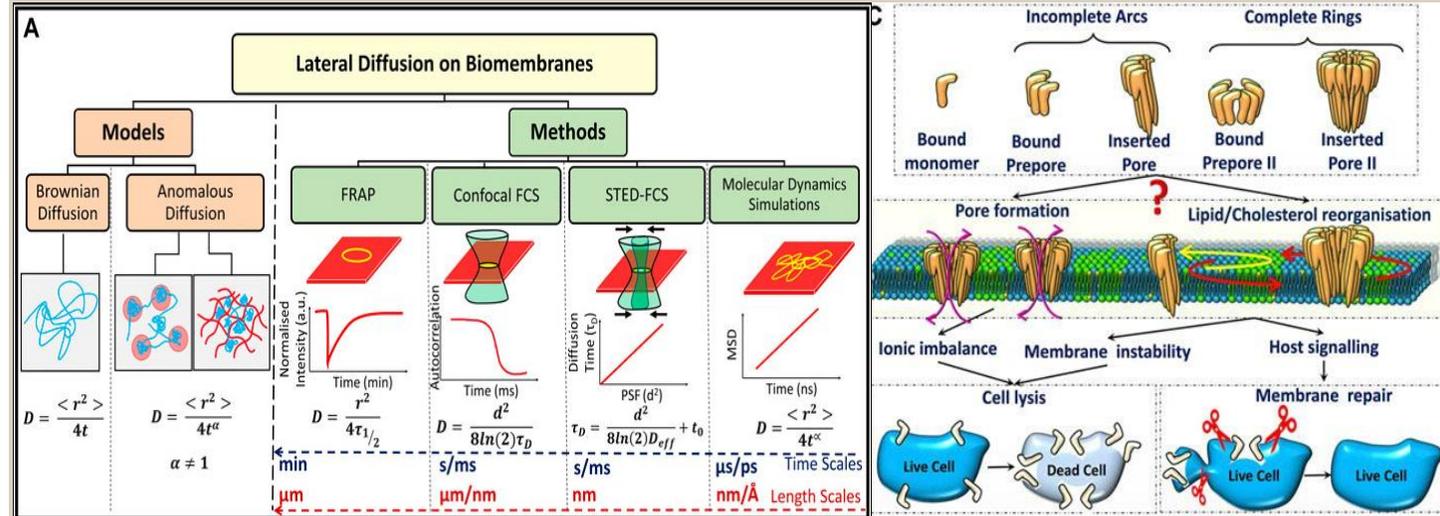
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Scopus ID : 57226266771

Orcid ID : 0000-0002-1920-0200

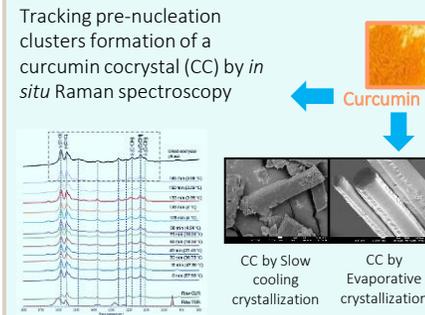
Area of Research:

- My area of expertise lies in molecular biophysical characterization of lipid-protein interactions.
- Extracting the changes on model and live cell membrane dynamics and surface properties upon interaction with external molecules.
- Some of the techniques used for elucidating the biophysical properties include Confocal-FCS, STED-FCS, FRAP, FRET, AFM.

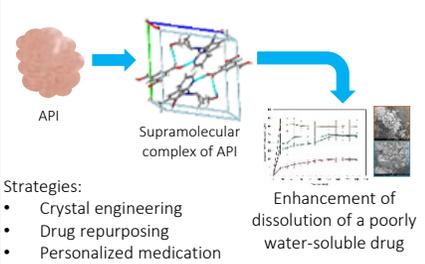


Area of Research:

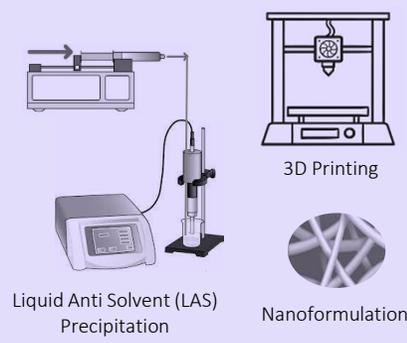
Controlling crystallization of (bio)pharmaceuticals using state-of-art technologies



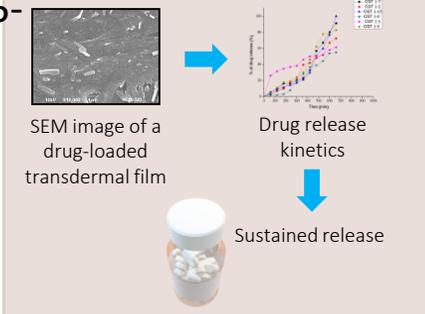
Strategies for enhancing physicochemical properties of Active Pharmaceutical Ingredients (APIs)



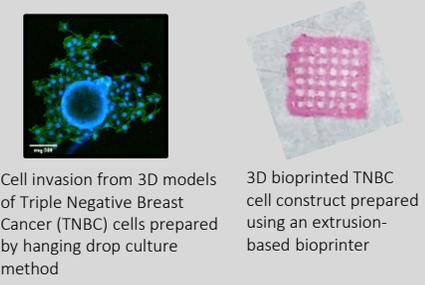
Continuous production of (bio)pharmaceuticals



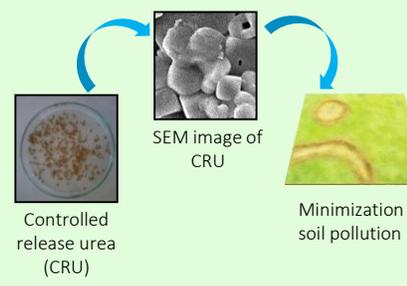
Drug delivery systems



Biomimetic 3D disease models as therapeutic screening tools



Biomimetic materials for environmental applications



Name : Dr. Indumathi Sathisaran
 Qualification : Ph.D.,
 (Indian Institute of Technology Gandhinagar)

Designation : Assistant Professor (Grade II)

Contact Number : +91-9585583690

Email : indumathis@nitc.ac.in

Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/4553d54a-3420-4540-8d55-f2cee97bcd4a>

Google Scholar ID : <https://scholar.google.com/citations?user=TSwc-SIAAAAJ&hl=en>

Scopus ID : 57194763062

ORCID ID : 0000-0002-2505-4596



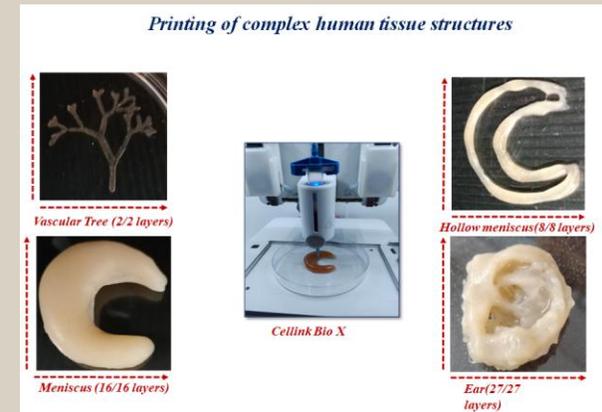
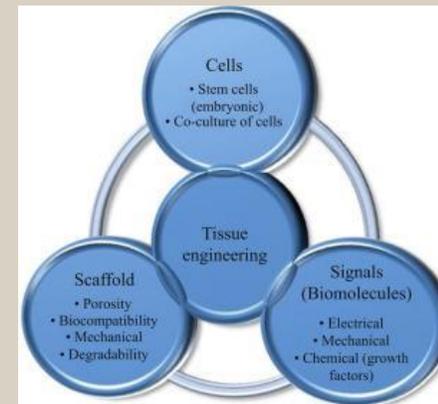
Area of Research:

- Biomaterials for organ/tissue repair
- 3D bioprinting for regenerative Medicine
- Bioinspired scaffolds for tissue Engineering applications



Name : Dr. K. Gopal Shankar
 Qualification: Ph.D., (University of Bologna, Italy)

Designation : Assistant Professor I
 Contact Number : 8122424981
 Email : gopalshankar@nitc.ac.in
 Website address :
<https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/3187d2c0-f714-42c6-b12e-b3759dc2dd97>
 Google Scholar
<https://scholar.google.com/citations?user=sxaWV8sAAAAJ&hl=en&oi=ao>
 Scopus ID : 57192102008
 ORCID ID : 0000-0003-0608-4658



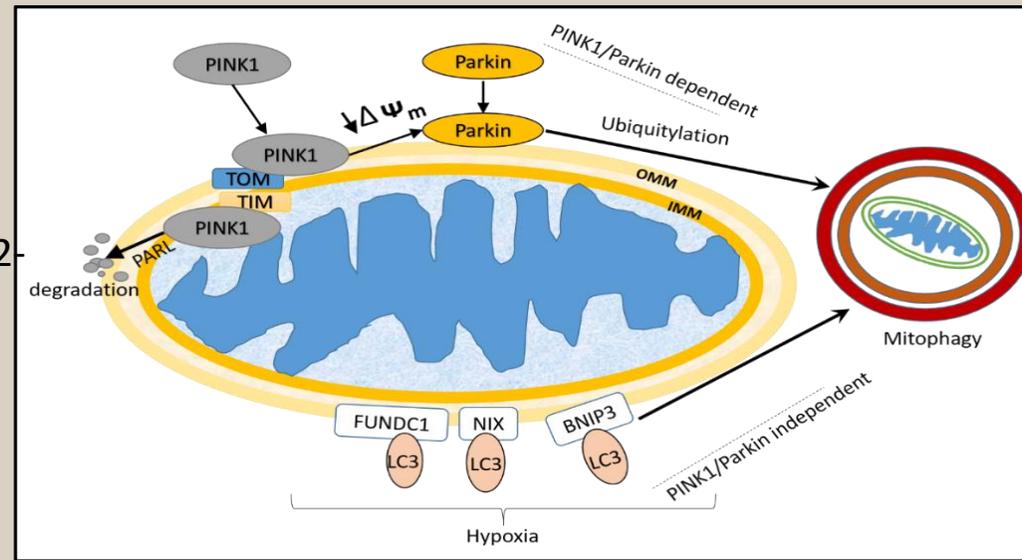


Name: Dr. K. Rajasekhara Reddy
 Qualification: Ph.D. Biochemistry
 University of Houston

Designation : Assistant Professor
 Contact Number : +919000946070
 Email : rajasekharareddy@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/3540698e-ac08-480c-aeb2-793f9d7536ae>
 Google Scholar ID : 3ya_rVAAAAAJ
 Scopus ID : 56321464400
 Orcid ID : 0000-0003-4710-7094

Area of Research:

- Cancer signaling, Cancer metabolism.
- Characterization of Mitophagy mechanisms in cancer cells
- Study the protein- protein interactions involved in TMEMs in cancer
- Exploring the Molecular Mechanisms of Medicinal Plants in Anticancer Therapy



Molecular mechanisms involved mitophagy of Cancer cells



Name : Dr. Ravindra Kumar
 Qualification: Ph.D., (Institute of Life Sciences Bhubaneswar)
 PostDoc : University of Illinois Chicago USA

Area of Research:

- My Research Area is broadly Computational Biology and system biology. It is focused on functional genomics, network biology, NGS data analysis to understand the cancer biology. My Lab is also working to improve and development new methods, tools for high throughput data analysis and Computer aided drug designing and discovery using AI and ML.

Designation : Assistant Professor

Contact Number : +91-9556213211

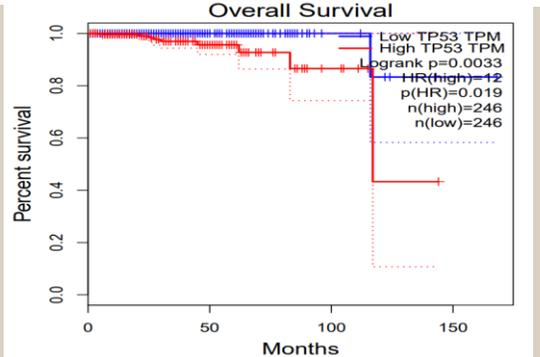
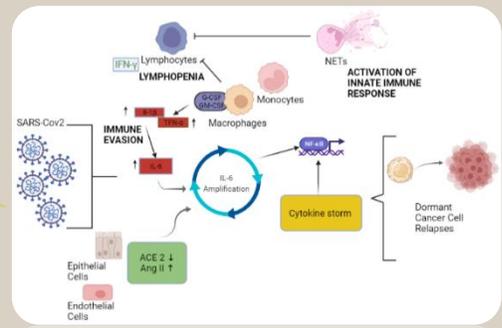
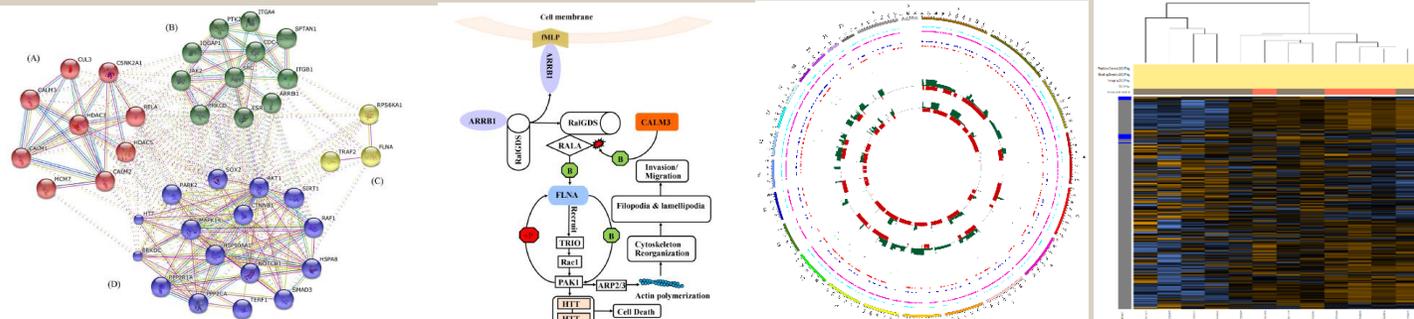
Email : ravindra@nitc.ac.in

Website address: <https://www.linkedin.com/in/ravindra-kumar-phd-nitc/>

Scholar ID : [hz-6EOEAAAJ](https://orcid.org/0000-0001-5577-9048)

Scopus ID : [57206755131](https://orcid.org/0000-0001-5577-9048)

Orcid ID : [0000-0001-5577-9048](https://orcid.org/0000-0001-5577-9048)





Name : Dr. Saket Chandra
 Qualification : Ph.D., (BIT Mesra)

Designation : Assistant Professor (Gr. II)

Contact Number :

Email : saketchandra@nitc.ac.in

Website address :

<https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/79c6c986-1fc5-4d96-94f5-fcd301e2658a>

Google Scholar ID: nU20KG8AAAAJ

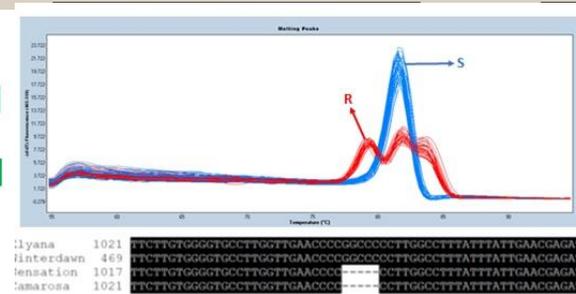
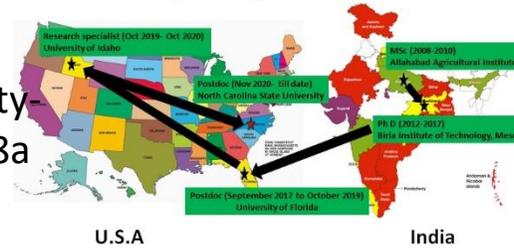
Scopus ID : 56647435100

Orcid ID : 0000-0001-5201-5106

Area of Research:

- My research area revolves around genomics and biotechnology of plants especially,
 - a) Plant-Pathogen interaction and herbicide resistance
 - b) Conventional molecular genetics
 - c) Bioinformatics (Next-generation sequencing analysis)

My Scientific journey

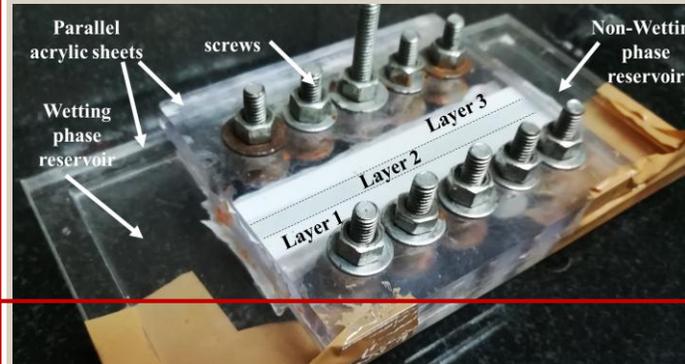


Marker development

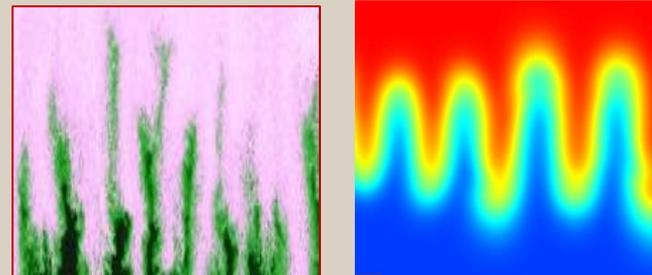
Genome editing

Area of Research:

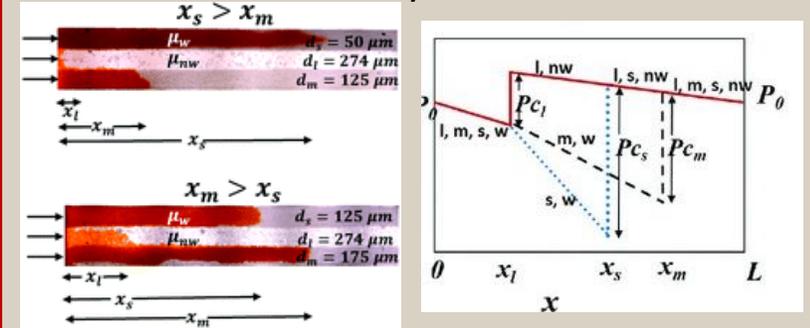
Investigating flow through porous media using in-house experimental setups



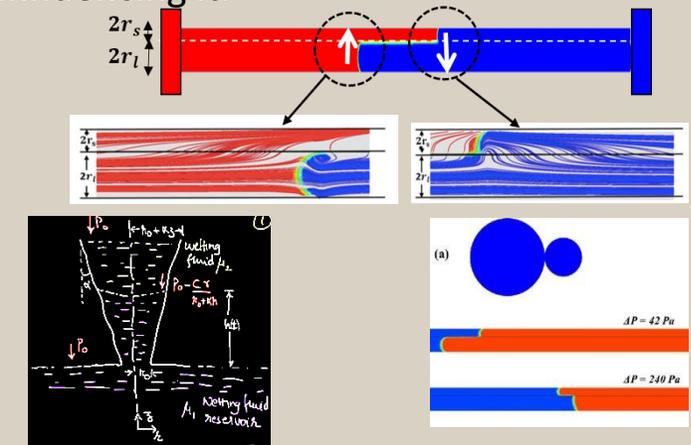
Investigating Rayleigh-Taylor instabilities for CO₂ trapping in subsurface saline aquifers



state-of-art dynamic imaging techniques combined with an extensive image analysis to understand the flow dynamics



Addressing phenomenon of imbibition at micro and macro scales, and the factors influencing it.



Name : Shabina Ashraf

Qualification: B. Tech, (NIT,Rourkela)

Ph.D., IIT Delhi,

Marie Curie Postdoctoral Fellow

at Univ. Rennes, France.

Designation : Assistant Professor

Contact Number : +91-8019611035

Email : shabinaashraf@nitc.ac.in

Website address :

Google Scholar ID : qLM0j9sAAAAJ

Scopus ID : 57193831220

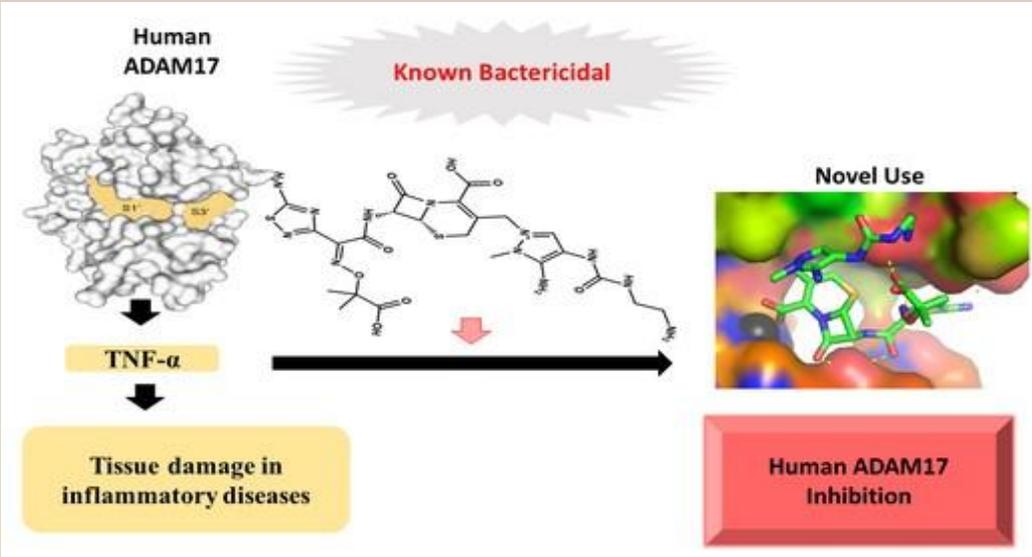
ORCID ID : 0000-0002-8063-5166



Name : Dr. TOM SKARIA
 Qualification: Ph.D., (University of Zurich, Switzerland)

Area of Research:

- Immunology, Inflammation, Cytokine Signaling, Vascular Drug Targets
- Identification of novel mediators of immune response with potent inflammatory activity

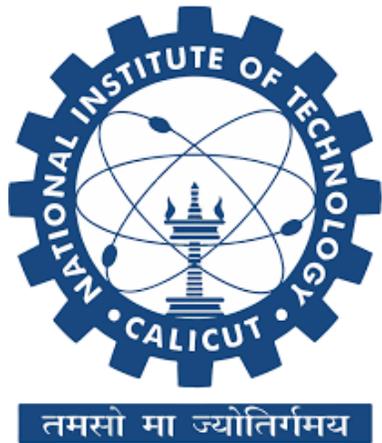


- Therapeutic targeting of inflammatory signaling pathway components

- Dissect the downstream signaling pathway of the novel inflammatory mediators in PBMC and vascular endothelial cells

Designation : Assistant Professor (Grade I)
 Contact Number : 04952285473
 Email : tomskaria@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-biotechnology/faculty-and-staff/faculty/4a42d14e-775e-46ae-bf92-27bc51fe9005>
 Google Scholar ID : 52YAPXUAAAAJ
 Scopus ID : 57189461299
 Orcid ID : 0000-0002-6822-9325

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Chemical Engineering

LIST OF FACULTY

- **Dr. Shiny Joseph**
- **Dr. Sivasubramanian V**
- **Dr. Lity Alen Varghese**
- **Dr. Aparna. K**
- **Dr. Malladi V Pavan Kumar**
- **Dr. S. Bhuvaneshwari**
- **Dr. Haribabu. K**
- **Dr. Panneerselvam Ranganathan**
- **Dr. Vineesh Ravi**
- **Dr. Chandra Shekar B**
- **Dr. Noel Jacob Kaleekkal**
- **Dr. Sudev Das**
- **Dr. Vakamalla Tejaswi Sreeram Kumar Reddy**
- **Dr. Susmita Das**
- **Dr. Dhanya Ram V**
- **Dr. Fathima Fasmin**
- **Dr. Swapna Reddy**
- **Dr. Praveen Kumar G**
- **Dr. Yogesh Kumar**
- **Dr. Subhasis Mandal**
- **Dr. Aniruddha Sanyal**
- **Dr. Shivanand Kumar Veeram**
- **Dr. Ahammed Sherief KY**
- **Dr. Ranjith P.M**
- **Dr. Debashish Panda**
- **Dr. Bharathi Ganesan R**
- **Dr. Ashish Soren**
- **Dr. Divij Kishal**



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Chemical Engineering



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Google Scholar :
Scopus ID : [55247158000](https://scopus.com/authid/detail.uri?authorId=55247158000)
Orcid ID : 0000-0002-2253-7090

Area of Research:

- Membrane applications: direct methanol fuel cell, dairy effluent treatment, chromium removal from wastewater and water purification;
- Fuel cell – Performance of passive alkaline direct methanol fuel cell

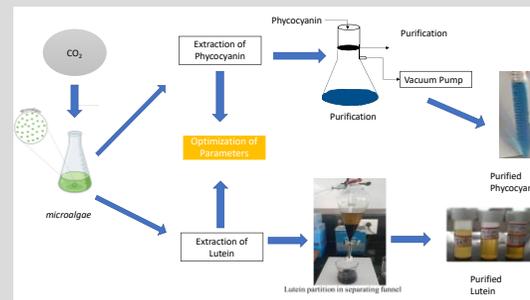


Name: Dr. V . Sivasubramanian
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 Google Scholar ID : <https://scholar.google.com/citations?user=0-LYWmMAAAAJ>
 Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=14029117900>
 Orcid ID : <https://orcid.org/0000-0002-7883-8124>

Area of Research:

- Write two to three points about your area of expertise/Current area of work.
- 1.The main research area focuses on combination of Advanced Oxidation Process and Bioremediation for heavy metal removal from waste water. Application of microbes for heavy metal removal in Bioremediation whereas visible light active photocatalysts where used for cadmium reduction in photocatalysis.
 - 2.Microalgae are known for their abundance of vitamins, lipids, and a wide array of other essential biomolecules, making them a highly valuable resource. The current focus of research revolves around two key areas: carbon dioxide sequestration and the extraction of bioproducts from microalgae. By fine-tuning of various parameters and employing advanced techniques, the aim is to enhance the efficiency and productivity of microalgae-based systems, thereby contributing to sustainable and eco-friendly solutions in areas such as biofuel production, pharmaceuticals, nutraceuticals, and other applications.



Advanced Oxidation Processes

- Advanced oxidation processes (AOPs) are used to oxidized organic compound that are not degrade in biological or secondary stage of water treatment.
- In oxidation process, It may not be necessary to oxidize a given compound or group of compound completely.
- Partial oxidation is sufficient to render specific compound more amenable to subsequent biological treatment or to reduce their toxicity.



Name : Lity Alen Varghese
Qualification: Ph.D., (CUSAT)

Area of Research:

- Thermoset resins for structural applications
- Phenolic resin –intercalated graphite for EMI shielding applications
- Removal of chromium dye and other anionic pollutants from industrial effluents
- Ternary polymer blends for automotive applications
- Conducting polymers
- Polymer nanocomposites for energy harvesting

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Google Scholar ID :

https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=nKAM5agAAAAJ Scopus ID

Orcid ID : <https://orcid.org/0000-0001-9399-2106>



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 Orcid ID : <https://orcid.org/0000-0002-0043-7355>

Area of Research:

- Biomass conversion to produce bioethanol
- Biodiesel production from non edible oils using biochar as catalysts
- Photocatalytic degradation of dyes.
- Modeling, simulation and optimization of parameters for chemical process plants





Name: Malladi V Pavan Kumar
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Area of Research:

- **Process Modelling, Simulation and Control**
 - Design versus Controllability
 - Reactive Distillation
 - Internal Heat Integration
 - Decentralized control Schemes
 - Fluid catalytic Cracking

- **Biomass valorization and Water Treatment**
 - Activated carbons – synthesis and characterization
 - Waste Biomass to useful products
 - Dye and pesticide removal by adsorption
 - Adsorption from aqueous media

THE CANADIAN JOURNAL OF CHEMICAL ENGINEERING

Article | Full Access

Reaction-separation interaction on the control of ideal two-feed, two-product exothermic reactive distillation columns

Malladi V. Pavan Kumar, Anish K. Mathew

First published: 14 September 2016 | <https://doi.org/10.1002/cjce.22682> | Citations: 4

Arabian Journal for Science and Engineering (2019) 44:5475–5487
<https://doi.org/10.1007/s13369-019-03782-1>

RESEARCH ARTICLE - CHEMICAL ENGINEERING

Comparison of the Steady-State Performances of 2 × 2 Regulatory Control Structures for Fluid Catalytic Cracking Unit

Anish Thomas¹ · M. V. Pavan Kumar¹

RESEARCH ARTICLE | JULY 28 2020

Ultrasound–acid modified *Merremia vitifolia* biomass for the biosorption of herbicide 2,4-D from aqueous solution FREE

Meethale Theruvinalakkal Aswani; Manoj Yadav; Amgoth Vinod Kumar; Shashank Tiwari; Tarun Kumar; Malladi Venkata Pavan Kumar

[Check for updates](#)

Water Sci Technol (2020) 82 (3): 468–480.
<https://doi.org/10.2166/wst.2020.346> Article history

Journal of Polymers and the Environment (2022) 30:5274–5289
<https://doi.org/10.1007/s10924-022-02597-w>

ORIGINAL PAPER

Adsorption of Methylene Blue, Methyl Orange, and Crystal Violet on Microporous Coconut Shell Activated Carbon and Its Composite with Chitosan: Isotherms and Kinetics

Abdul Samad Kamdod¹ · Malladi V Pavan Kumar¹



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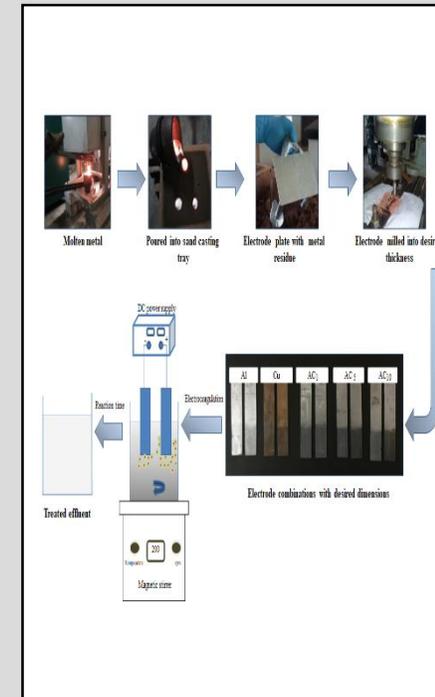
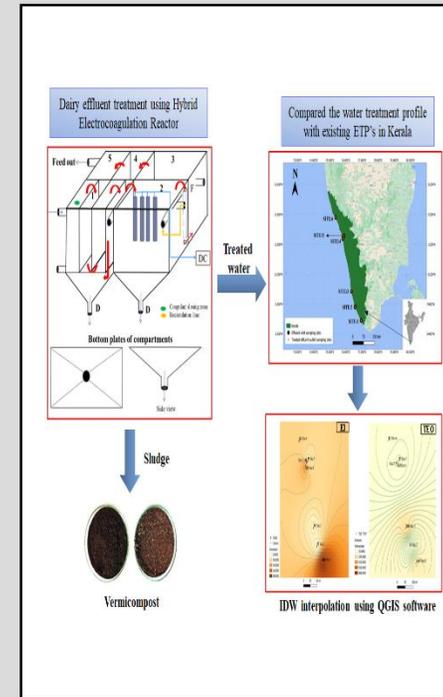
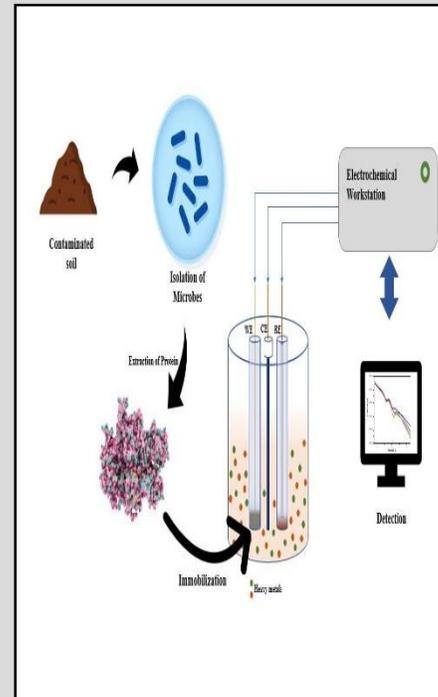
<https://scholar.google.com/citations?user=kikfTPgAAAAJ&hl=en&authuser=4>

Scopus ID : 57212386034

Orcid ID : 0000-0002-1090-3356

Area of Research:

- Wastewater treatment
- Separation processes
- Electrochemical sensors



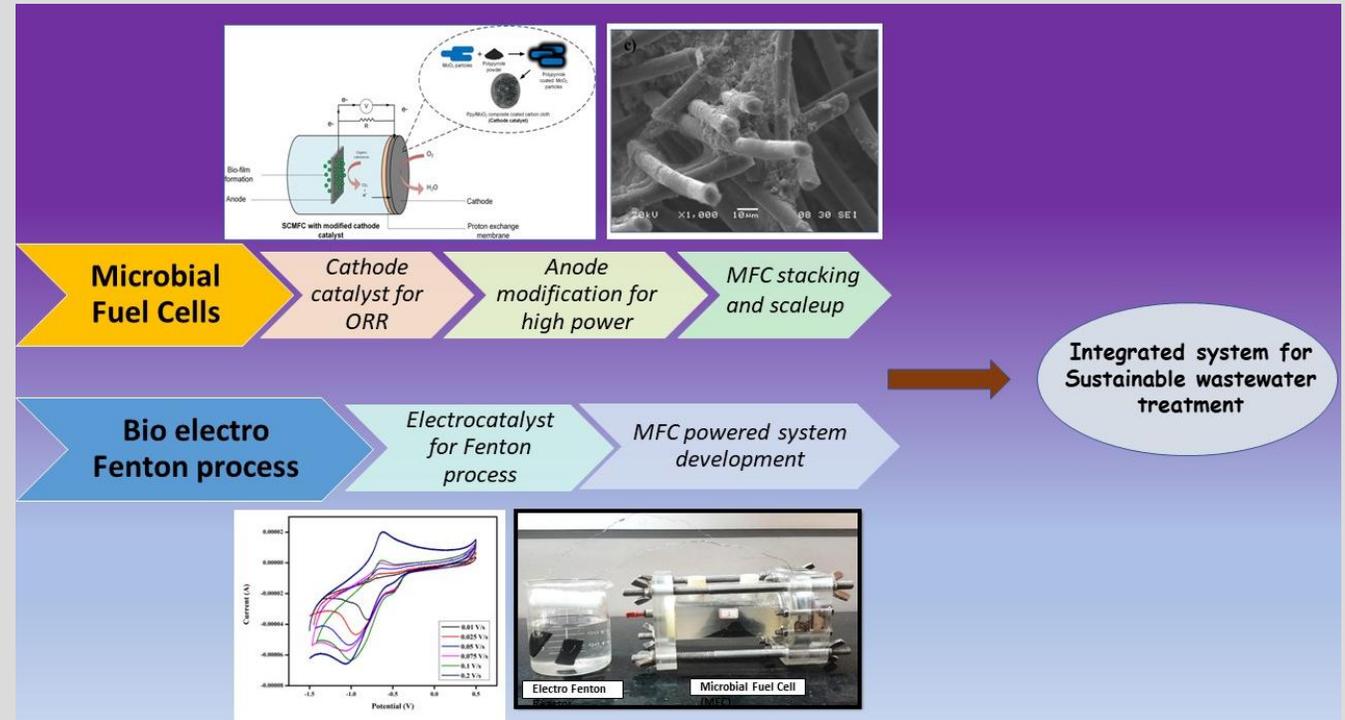


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 Scopus ID :50161588500
 Orcid ID :0000-0002-4225-7168

Area of Research:

- Bio electrochemical systems for concurrent waste water treatment and energy generation
- Development of advanced materials for energy storage applications
- Advanced oxidation coupled systems for treatment of recalcitrant pollutants
- Design and development of system architecture for MFC scale up

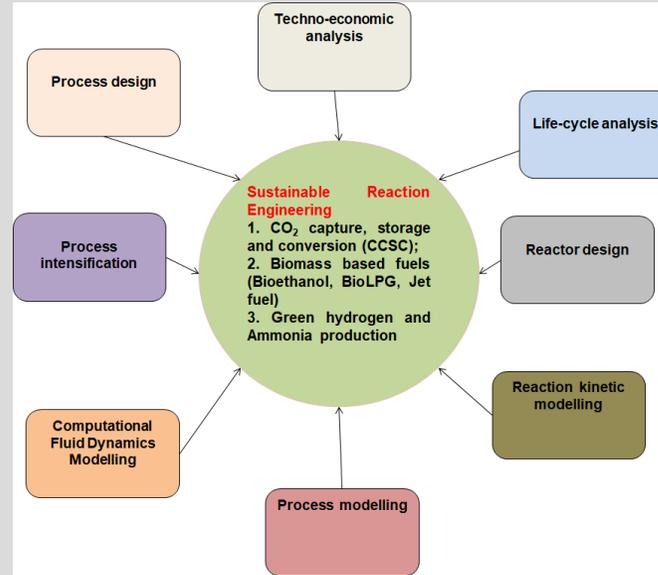




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<https://scholar.google.com/citations?user=br-OE6EAAAj&hl=en>
 Scopus ID :
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<http://orcid.org/0000-0001-6083-0418>

Area of Research:



Rotating packed bed for CO₂ capture



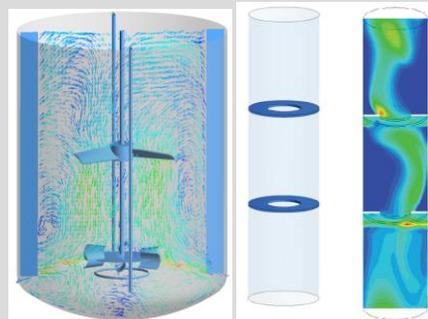
CO₂ conversion to olefins



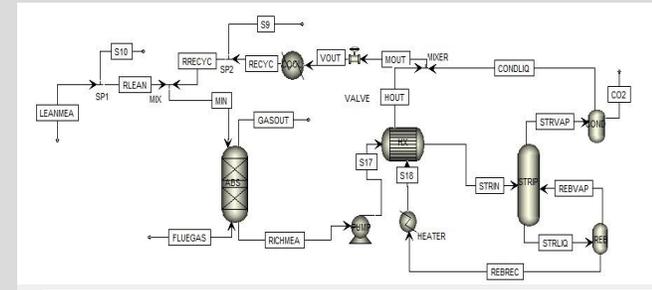
High pressure hydrothermal thermal liquefaction (HTL) reactor for biofuel production



Modelling tools :
 Aspen Plus; ANSYS
 Fluent/ CFX;
 COMSOL; Matlab;
Life Cycle Analysis tool: GREET
Computational facility: High computing Workstation



Agitated vessel Oscillatory baffled reactor



Process simulation using Aspen Plus

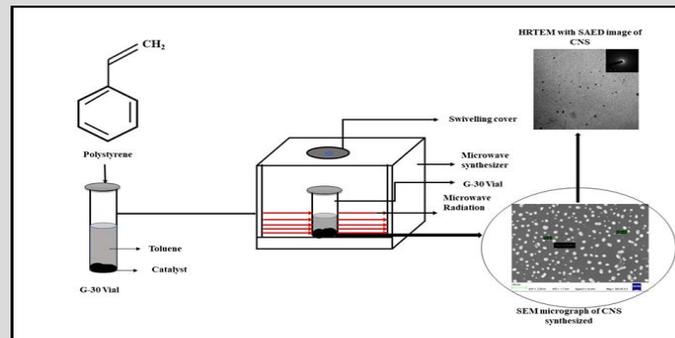


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 Orcid ID :<https://orcid.org/0000-0002-3943-2957>

Area of Research:

- Fuel cell modeling and simulation
- Fuel cell catalysis
- Plastic to Carbon nanomaterials and fuel





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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Department: Chemical Engineering



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Google Scholar
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&hl=en
Scopus ID : 56070956500
Orcid ID : 0000-0002-3898-424X

Area of Research:

- ✦ Design of Classical and advance controllers for chemical process systems.
- ✦ Automated controller design, tuning, and performance monitoring.
- ✦ Design of centralized, and decentralized control system for stable and unstable linear and nonlinear process.
- ✦ Design and control of reactive distillation column.
- ✦ Internet of things, Image processing, Big Data and Machine Learning in process Industry.
- ✦ Nonlinear systems and Analysis.
- ✦ Design and analysis of biological systems.
- ✦ Intensified systems and control.
- ✦ Computer Vision.

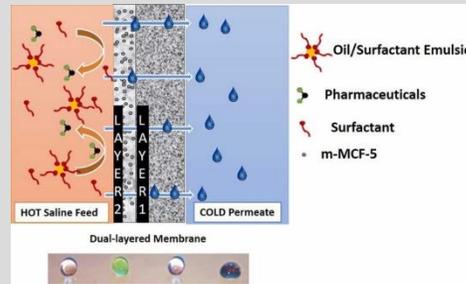


Name : Noel Jacob Kaleekkal
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 Google Scholar ID :
<https://scholar.google.co.in/citations?hl=en&user=e3rsM7sA-AAJ>
 Scopus ID :56507443000
 ORCID ID :[0000-0002-3845-7845](https://orcid.org/0000-0002-3845-7845)
 INAE Young Engineer Award 2022 (Chemical Engineering)
 KSCSTE Young Scientist Award 2022

Area of Research: Membrane Technology

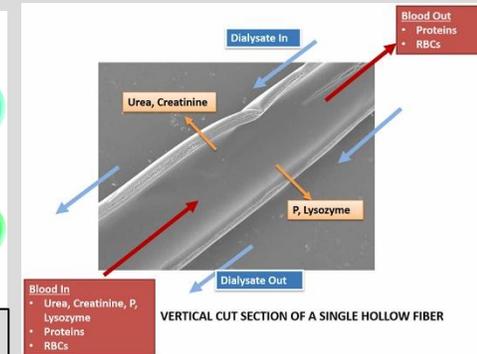
1. Functionalized Membrane Development- Using surface modification, nanomaterials, etc. to improve the structure, function, and performance of the membrane for desalination and water recovery from challenging feeds.
2. Validation and Process Integration of the membranes- Lab-scale membrane testing, Zero-liquid Discharge, Integration with Renewable Energy.
3. Transport Models and Machine Learning- Understand the transport phenomena (Heat, Mass, and Fluid) in membrane processes. Employing data-driven models to predict membrane performance.



Electrospun Membranes + Membrane Distillation



Engineered Osmosis + Thin-film nanocomposite membranes



Hemodialysis + Mixed Matrix Membranes

Funding Received: SERB-SRG, DST-EWO, SPARC, KSCSTE
 Facility Available: Membrane Fabrication- flat-sheet casting, electrospinning. Membrane Testing Systems- UF/NF, RO, FO/PRO, MD, PV., Photocatalytic reactor
 Membrane Characterization



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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<https://scholar.google.com/citations?user=KDv8TJ8AAAAJ&hl=en&authuser=1>

Scopus ID : 55605762097

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Area of Research:

- Develop micro/nanoscale surfaces for high heat flux applications, electronic cooling, nuclear reactor, etc.
- Solar energy-assisted pool boiling on micro/nanoporous surfaces for high-quality steam generation.
- Develop microencapsulated phase change material with filler material for thermal energy storage
- Scalable micro/nano-fabrication, advanced characterization, state-of-the-art experimentation, and unique model prediction capabilities to enable mechanistic insights into complex fluid and thermal transport processes.



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Department: Chemical Engineering



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Area of Research:

- On developing comprehensive Computational Fluid Dynamic (CFD) and Discrete Element (DEM) Models for accurate predictions in hydrocyclones, dense medium cyclones, fluidized beds, vertical pipe flows and mixing tanks etc.
- Validating the numerical model predictions against in-house experimental measurements through laser, tomography and optical fibre probe techniques.
- Virtual modification of the design parameters to improve the performance.
- Fabrication and testing of novel designs

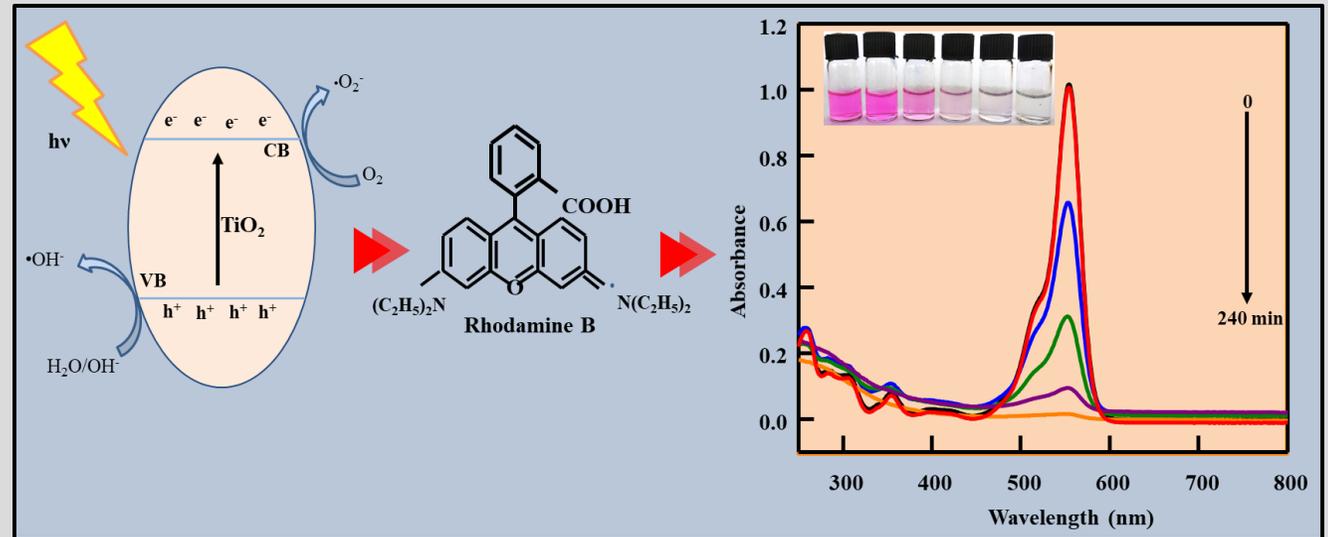


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 Scopus ID : 57198673964
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Area of Research:

- Microfluidic Photocatalysis
- Waste water treatment
- Fracture of soft solid





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Chemical Engineering

Area of Research:

- Process Control
- Identification and Control of Multivariable systems.
- Modelling and Simulation
- Process Optimization
- Reaction Calorimetry

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Area of Research:

- Metal air batteries
- CO₂ electro-reduction
- Use a graphical representation describing your research(one or two images), if interested.



Name : Praveen Kumar G

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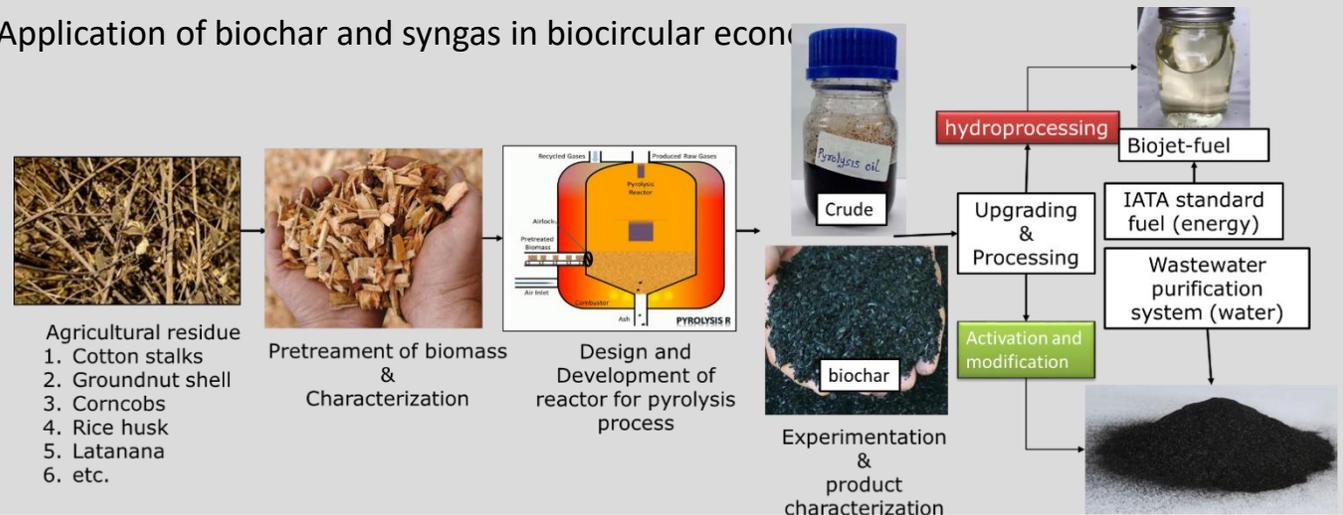
Orcid ID :0000-0003-3427-7481

Area of Research:

- The two major thrust areas are energy security and environmental protection in the current scenario. With this motivation, harness plastic/biomass waste energy sources for the automobile industry, aviation industry, and electricity generation while also providing a clean environment.

Objectives of current studies

- ✓ Hydroprocessing of crude bio-fuels to produce jet-fuels (hydrodeoxygenation treatment).
- ✓ Kinetic studies and reaction mechanism of the conversion technologies.
- ✓ Application of biochar and syngas in biocircular economy





Name : Dr. M. Yogesh Kumar

Qualification: Ph.D., (McGill Univ.)

Designation : Assistant Professor

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Google Scholar ID :
<https://scholar.google.com/citations?user=OlxqLSkAAAAJ&hl=en>

Scopus ID : 35076331600

Orcid ID : <https://orcid.org/0000-0002-3890-2208>

Area of Research:

- I am an academic with research interests across the field of Chemical Engineering & Biotechnology with a focus on **Process Modeling and Simulation, Material science, Bioprocess Technology, Environmental and Sustainability Engineering.**
- Through research work focusing on **computational investigation of biological and biomimetic materials and processes** (@McGill University), structural and functional soft matter (@McGill University and University of Southampton) and **energy conversion systems** (@IIT Madras funded by BHEL) and experimental work on process design for **treatment of effluent from stainless steel pickling plant** at NFC, Hyderabad (@Sri Venkateswara College of Engg funded by BRNS), I have explored applications of chemical engineering to emerging technologies and gained an interdisciplinary, multi-scale perspective of chemical engineering.
- Currently I am focusing on Synthesis, characterization and process design for **manufacturing of biocement/ bioconcrete and Carbon sequestration using Mineralized Cellulose Materials.** I am keen on developing sustainable **processes and materials for energy and environmental applications** to support the **global decarbonization** efforts to mitigate global warming and climate change.



Name : Subhasis Mandal, PhD
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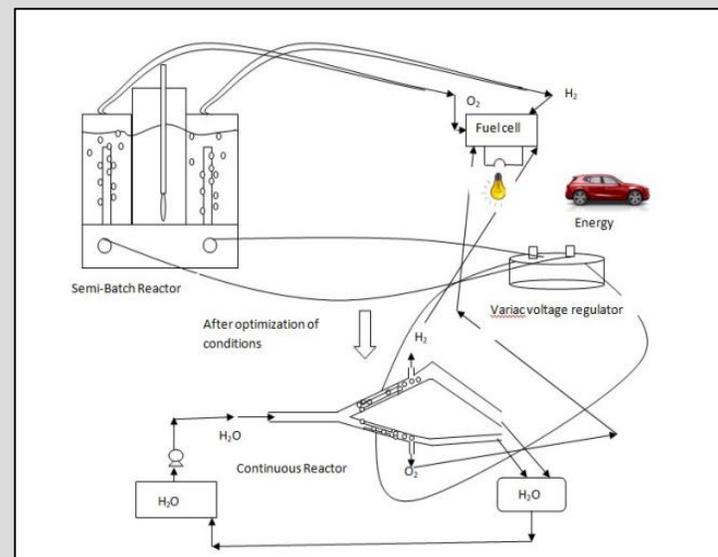
Google Scholar ID:
scholar.google.com/citations?user=mNKwrXAAAAAJ&hl=en

Scopus ID :57203282409

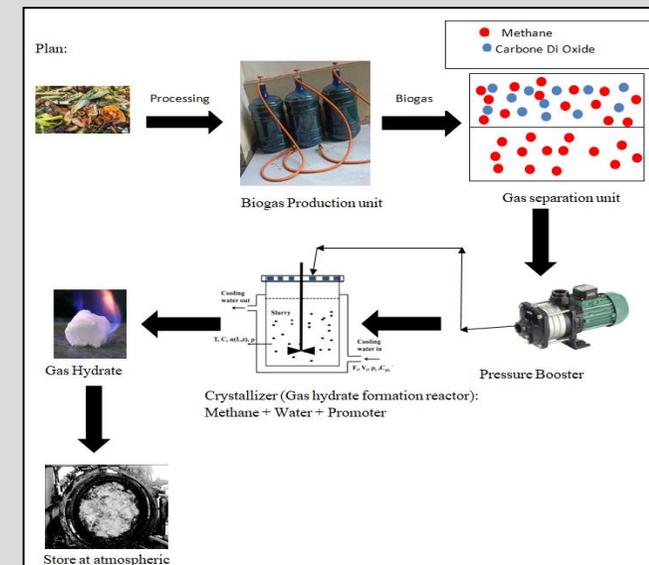
Orcid ID :0000-0002-1683-8700

Area of Research:

- Hydrogen Production from non- fossil source
- Energy storage by Hydrate based technology
- Bio-Chemical Engineering
- Graphical representation of my research



Schematic diagram of water splitting hydrogen production process through semi-batch reactor and continuous reactor



Schematic diagram of Bio gas Production separation and storage of biogas in the form of gas hydrate.



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Google Scholar ID : HMrDCOEAAAAJ

Scopus ID : 35620751300

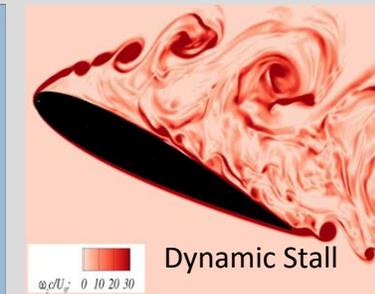
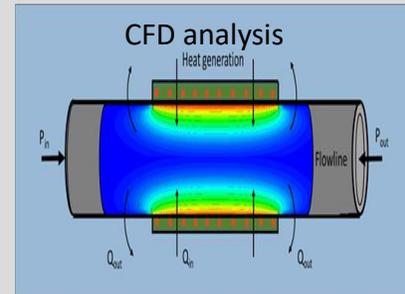
Orcid ID : 0000-0002-1682-2397

Area of Research:

- Currently working in numerical and experimental area on rheology of complex fluids.
- Worked on flow assurance in waxy crude oil pipeline on the interest of saving energy consumption.
- Area of interest: Non-Newtonian Flow, Convection Heat Transfer, Multiphase Flow, Rheology and Fluid-structure interactions.

Experimental Skills: Rheometer (Anton Par, ARES)

Coding & Softwares: FORTRAN, C++, Python, ANSYS, ICEM, OpenFoam, Tecplot, ParaView, MATLAB





Name : Dr. Shivanand Kumar Veeram

Qualification : Ph.D., (Iisc, Bangalore)

Designation : Assistant Professor (Grade-ii)

Contact Number : 8317430371

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Website Address :

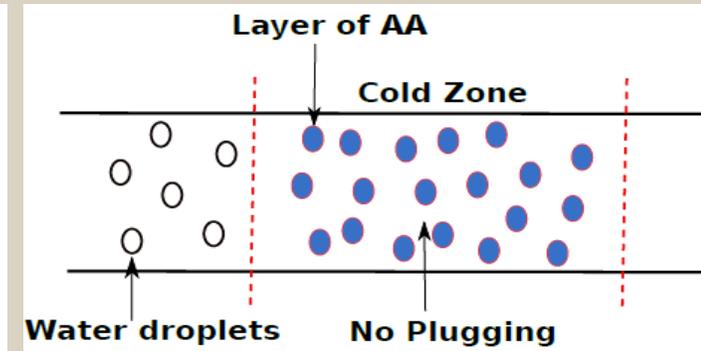
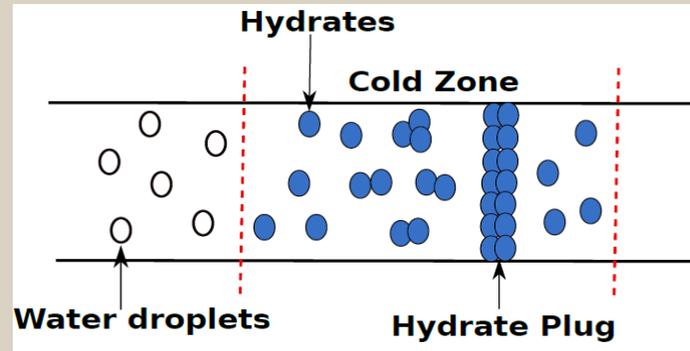
Google Scholar ID : Qyixoamaaaaj

Scopus ID : 55201892000

Orcid ID : 0000-0003-4671-9646

Area of Research:

- THERMODYNAMIC MODELLING OF GAS HYDRATE
- FLOW ASSURANCE
- TRANSPORT PROPERTIES OF COMPLEX FLUIDS
- FORCE FIELD DEVELOPMENT OF METAL OXIDE
- CRYSTAL NUCLEATION AND POLYMORPHISM
- MOLECULAR SIMULATIONS (MD/MC)
- MACHINE LEARNINGZ





Name: Ahammed Sherief K Y

Qualification: Ph.D., (Monash University, Australia)

Designation : Assistant Professor Grade - II

Contact Number : 9496759151

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Website address :

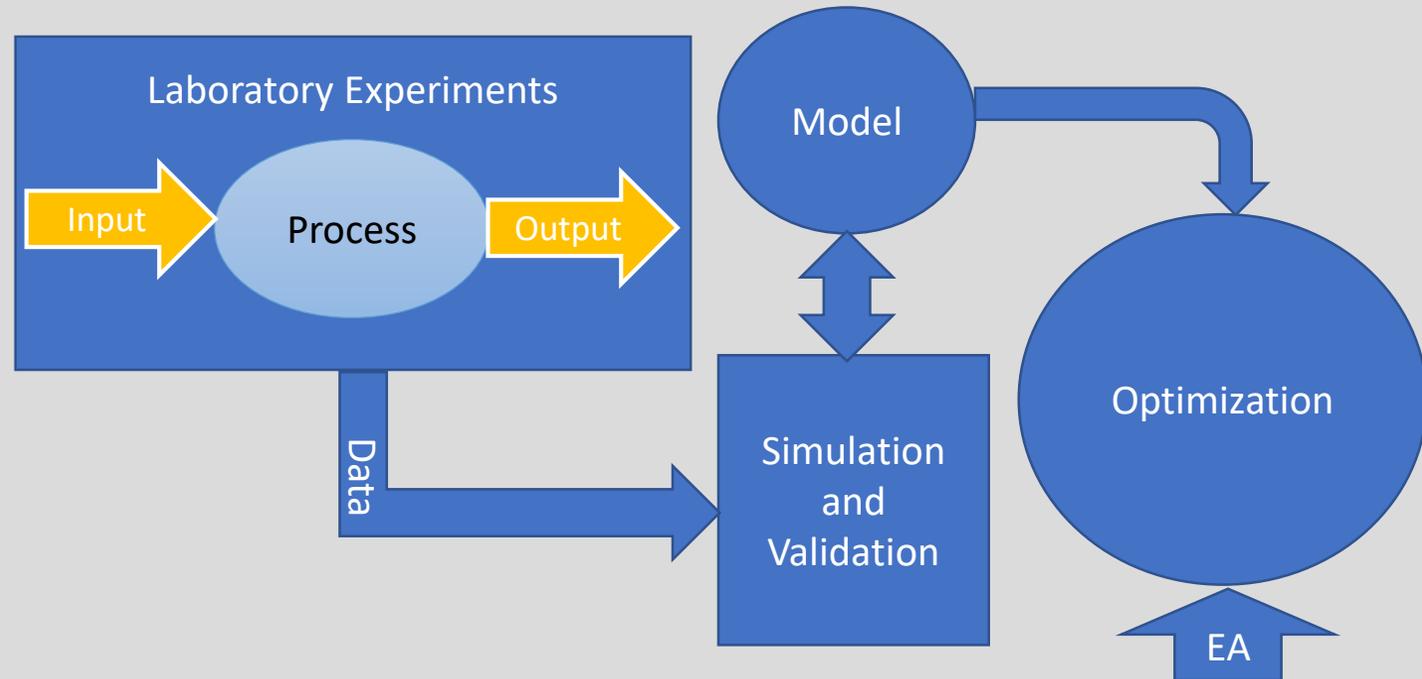
Google Scholar ID : [ASK Youseph](#)

Scopus ID : 57188804939

Orcid ID : 0000-0003-3102-1325

Area of Research: Modeling, Simulation and Optimization

- Gene regulatory network inference
- Evolutionary algorithms (EA)
- Bioprocess optimization





Name : Ranjith P M

Qualification : Ph.D., (IIT Madras)

Area of Research:

- Modelling the Mechanism of Electrochemical Reactions.
- Corrosion evaluation under industrial operation conditions.
- Chemical mechanical planarization (CMP) and post-CMP cleaning during semiconductor device fabrication.

Designation : Assistant Professor

Contact Number : +91 9605759475

Email : pmranjith10@nitc.ac.in

Website address : <https://pmranjith10.wixsite.com/website>

Google Scholar ID : 5KEfds8AAAAJ

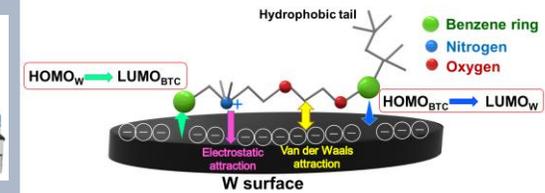
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Orcid ID : 0000-0001-5284-1360

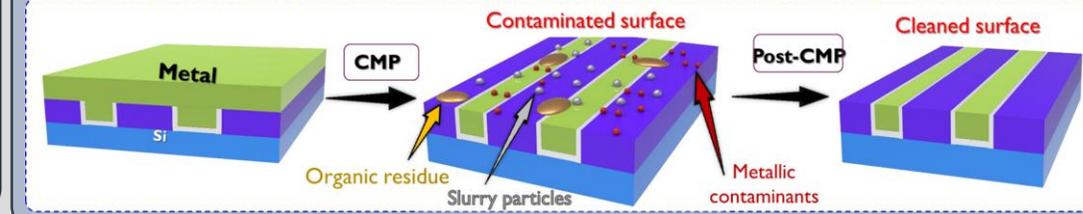
Hydrogen evolution reaction



Evaluation of corroding systems in industries and performance of inhibitors



Chemical mechanical planarization (CMP) and post-CMP cleaning during semiconductor device fabrication



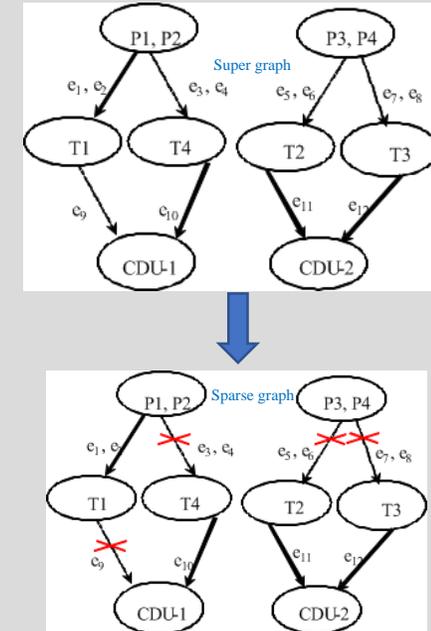
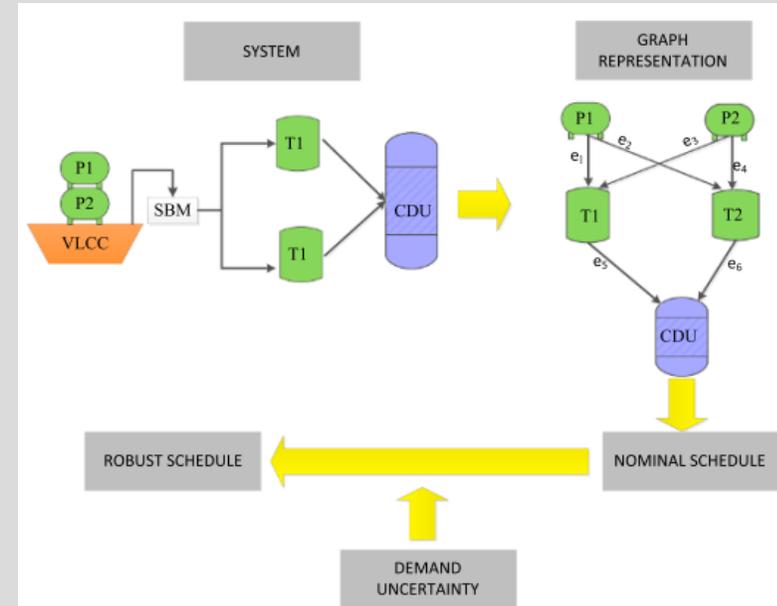


Name : Dr. Debashish Panda
 Qualification : Ph.D., (IIT Delhi)

Designation : Assistant Professor G-II
 Contact Number : 9891442128
 Email : debashishpanda@nitc.ac.in
 Website address :
<https://nitc.ac.in/department/chemical-engineering/faculty-and-staff/faculty/d6d3dae4-4be1-4226-99aa-91fbe31a07f2>
 Google Scholar ID : rThU6eYAAAAJ&hl
 Scopus ID :57201495897
 ORCID ID :0000-0001-8556-382X

Area of Research:

- Planning and scheduling of crude oil refinery
- Optimization of a refinery under uncertain conditions in both upstream and downstream
- Development of optimization method for an integrated refinery





- Acid modified activated carbon
- Mathematical modelling of multicomponent adsorption



Name : Bharathi Ganesan R

Qualification : Ph.D., (IIT Madras)

Designation : Assistant Professor Grade II

Contact Number : 9994630279

Email :

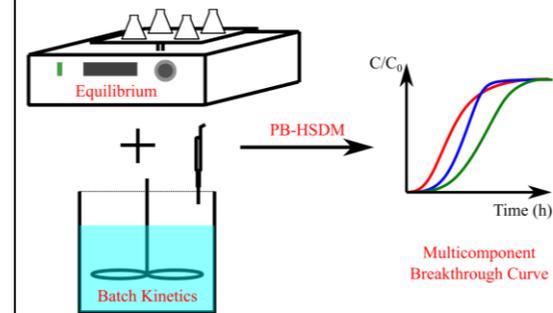
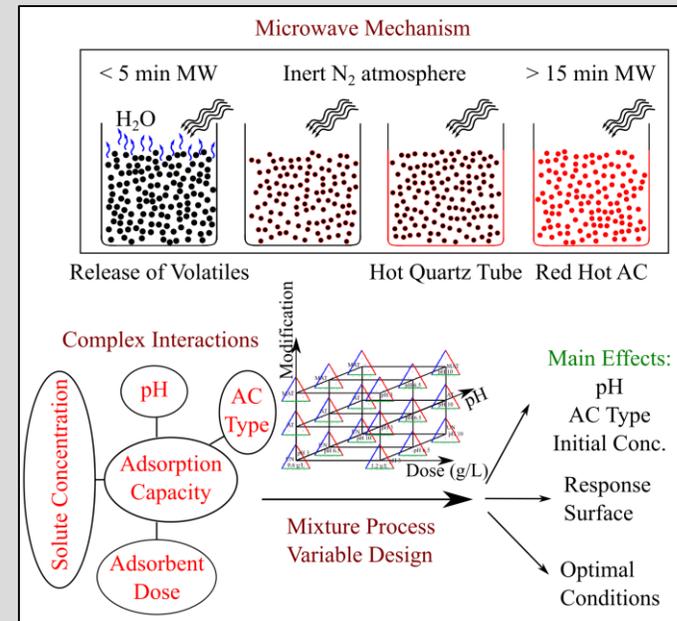
r.bharathiganesan@nitc.ac.in

Website address : [Link](#)

Google Scholar ID : mt1DDuMAAAAJ

Scopus ID : 57212208619

ORCID ID : 0000-0002-3435-7097



Area of Research:



Name : Ashish Soren
 Qualification: Ph.D., IIT Bombay

- Spatial optimization under uncertainty
- Multi-stage design for infrastructure development
- Techno-economic analysis

Designation : Assistant Professor Grade - II
 Contact Number : 7738717713
 Email : ashishsoren@nitc.ac.in
 Website address : [National Institute of Technology \(nitc.ac.in\)](http://National Institute of Technology (nitc.ac.in))
 Google Scholar ID : 9jMTks8AAAAJ
 Scopus ID : 57202788075
 ORCID ID :

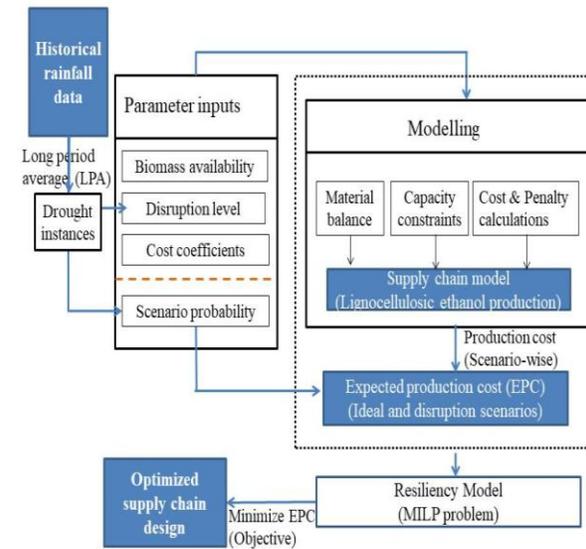


Figure 1: Optimization framework for resilient supply chain for biomass based system under uncertainty to biomass supply

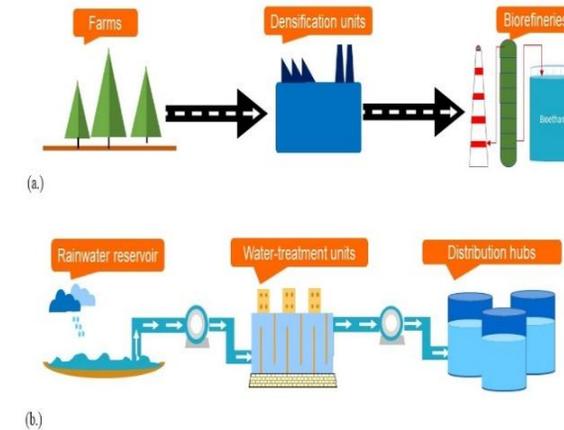


Figure 2: Examples of potential application of the framework (a.) Bioethanol production (b.) Water distribution network



Name : Dr. Divij Kishal

Qualification : Ph.D. (IIT Kanpur)

Designation : Assistant Professor

Contact Number : +91 7045439894

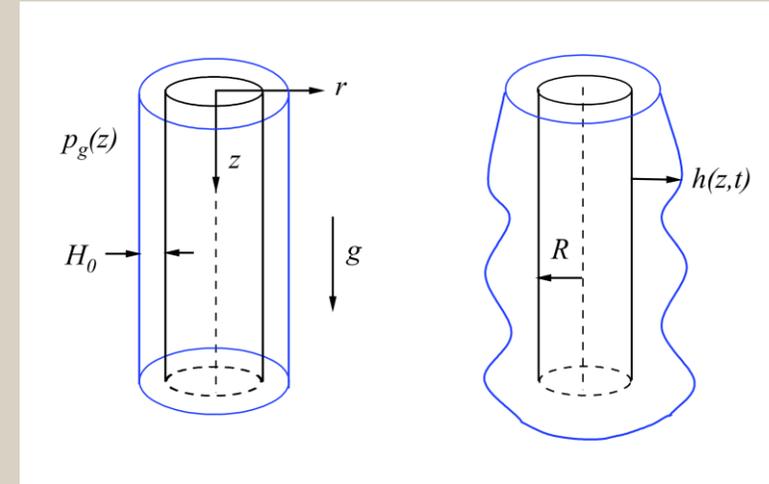
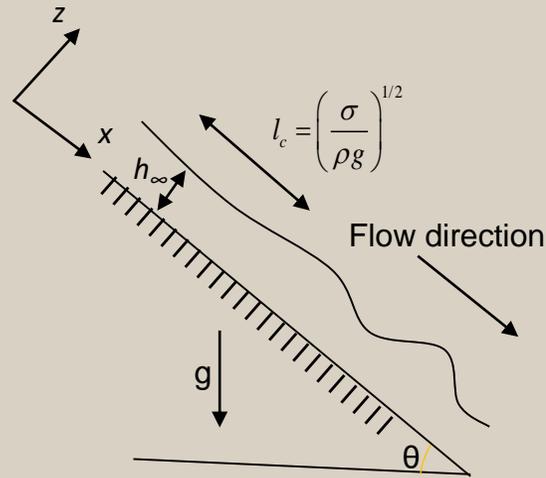
Email : divijkishal@nitc.ac.in

Website address : National Institute of Technology

Scopus ID : 57226347177

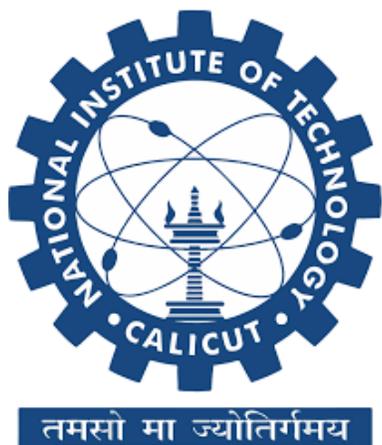
Area of Research:

- Hydrodynamic Instability of Thin Liquid Films, Spatio-temporal instability
- Coating flow, Marangoni flows, Contact line spreading
- Environmental Engineering, Wastewater Treatment (Nitrogen removal)



Thin film flow over inclined plane Thin film flow outside of a cylinder

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Chemistry

LIST OF FACULTY

- **Dr. A. Sujith**
- **Dr. G. Unnikrishnan**
- **Dr. Lakshmi C**
- **Dr. Lisa Sreejith**
- **Dr. Parameswaran Pattiyil**
- **Dr. Suni Vasudevan**
- **Dr. Anuj A Vargeese**
- **Dr. Chinna Ayya Swamy P**
- **Dr. Janardhan Banothu**
- **Dr. Mausumi Chattopadhyaya**
- **Dr. Mini Mol Menampambath**
- **Dr. M. Sankaralingam**
- **Dr. Raju Dey**



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Chemistry

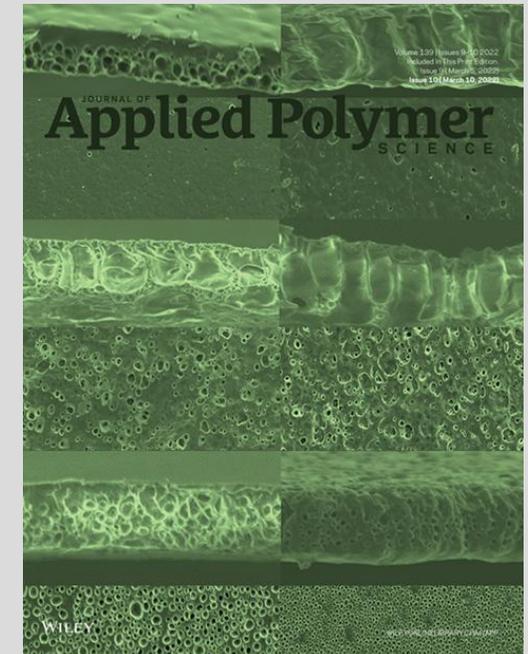
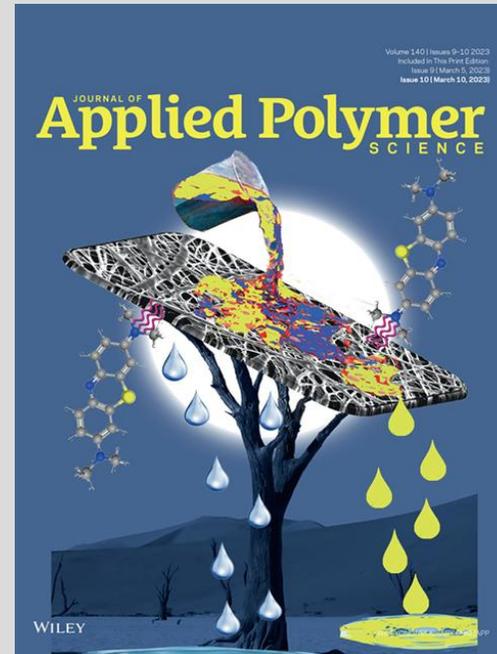


Name : Dr. A. Sujith
Qualification : Ph.D., (NIT Calicut)

Designation : Professor
Contact Number : 9846475675
Email : sujith@nitc.ac.in
Website address :
<https://nitc.ac.in/department/chemistry/faculty-and-staff/faculty/62690c9b-9341-451a-b9d5-7cc95ee9cf19>
Google Scholar ID :
<https://scholar.google.co.in/citations?user=V9t7UOoAAAAJ&hl=en>
Scopus ID :
<https://www.scopus.com/authid/detail.uri?authorId=8947410400>
Orcid ID :
<https://orcid.org/0000-0003-3278-5343>

Area of Research:

- **Polymer Biocomposites:** Development and characterization of plastic systems with enhanced biodegradability
- **Nanofibrous Membranes:** for water purification, microparticle separation, sensing
- **Plastic food packaging:** Development of ecofriendly packaging systems
- **Nanobioanalysis:** Bioanalysis using metal nanoparticles and Raman Spectroscopy



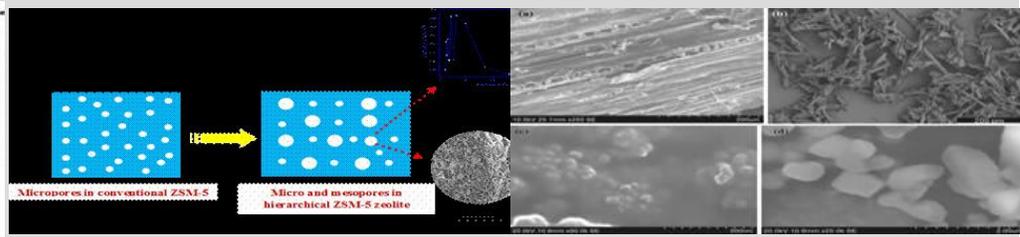
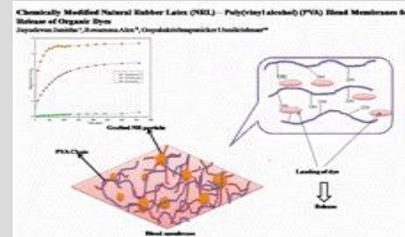


Name: Dr.G. Unnikrishnan
 Qualification: Ph.D., (M. G.

Designation :Professor (HAG)
 Contact Number :9846764238
 Email :unnig@nitc.ac.in
 Website address : nitc.ac.in (chemistry department)
 Google Scholar ID :
 Scopus ID :
 Orcid ID :Orcid.org/0000-0001-6257-7217

Area of Research:

- Polymer Technology
- Biomacromolecules
- Catalysis
- Lubricants
- Biocomposites

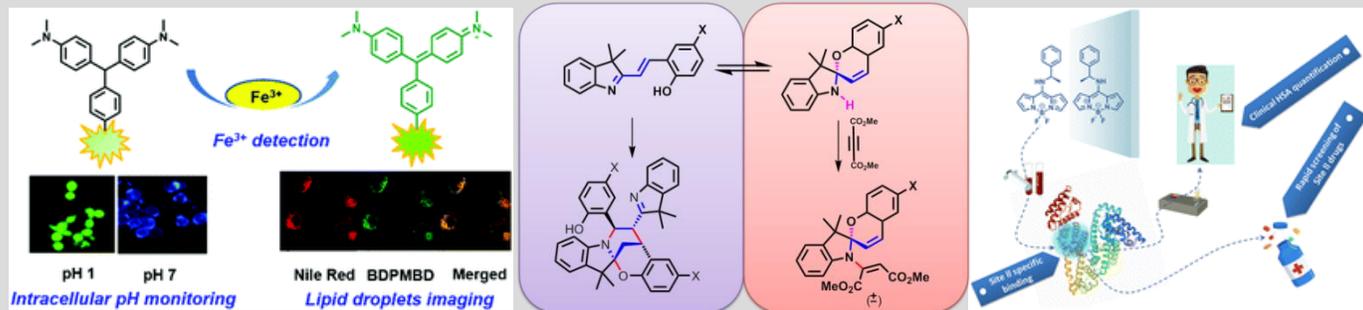




Area of Research:

Organic and Bio-Organic Chemistry, Physical Organic Chemistry

- Synthesis and Photophysical Studies and Applications of Organic Fluorophores
- Organic synthesis
- Molecular Self-Assembly



Name : Dr. Lakshmi C.

Qualification: Ph.D., (IICT, Hyderabad)

Designation : Professor

Contact Number : 9746407767

Email : lakshmic@nitc.ac.in

Website address :

<https://nitc.ac.in/department/chemistry/faculty-and-staff/faculty/e42c6276-80e0-413f-b0db-f3a20a2f50d7>

Google Scholar ID :

Scopus ID :

Orcid ID : 0000-0002-0553-7590



Name : Dr. Lisa Sreejith
 Qualification : M.Sc, M.Phil, Ph.D(AMU)

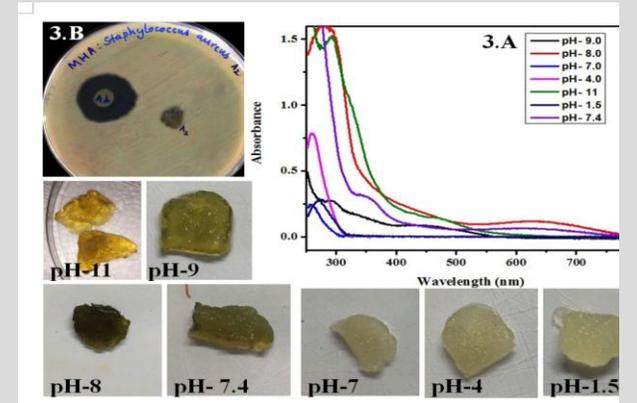
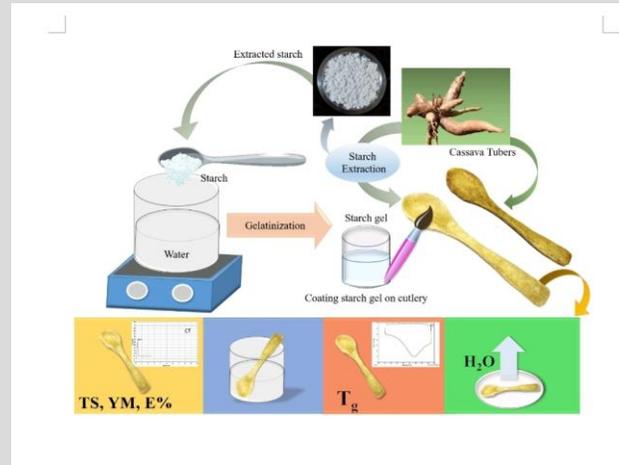
Designation : Professor

Email : lisa@nitc.ac.in

Contact number : 9447203130

Area of Research:

- Targetted drug delivery
- Plastic Waste management
- Environmental solutions





Name : Dr. Parameswaran Pattiyil

Qualification : Ph.D.(University of Hyderabad)

Area of Research:

- Theoretical and Computational Chemistry
- Heuristic Bonding Models using First Principle Calculations
- Designing Catalysts and Rule Breaking Molecules

Designation : Professor

Contact Number : 0091-495-228-5304

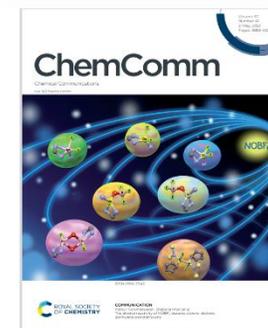
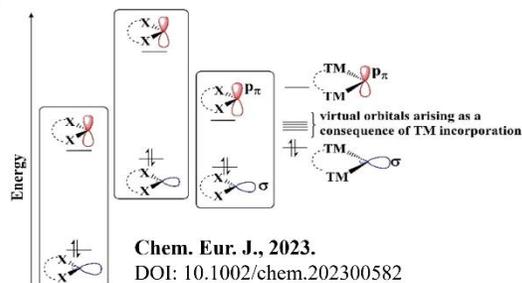
Email : param@nitc.ac.in

Website : <https://pgroupnitc.wixsite.com/nitccomputational>

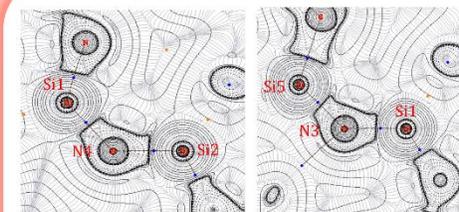
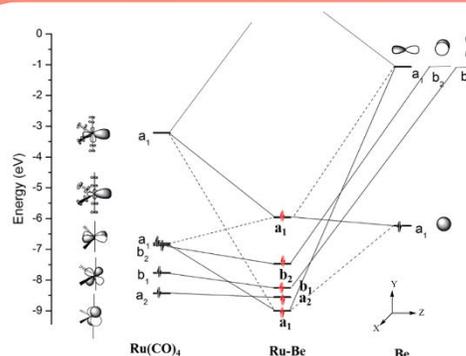
Google Scholar ID : Parameswaran Pattiyil

Scopus ID : 26644357600

Orcid ID : 0000-0003-2065-2463



Chem. Commun., 2021, 57, 5008-5011.





Name : Dr. Suni Vasudevan

Qualification : Ph.D., (CUSAT)

Designation : Associate Professor and HOD

Contact Number : 0495 2285305

Email : suniv@nitc.ac.in

Website address : [National Institute of Technology \(nitc.ac.in\)](http://National Institute of Technology (nitc.ac.in))

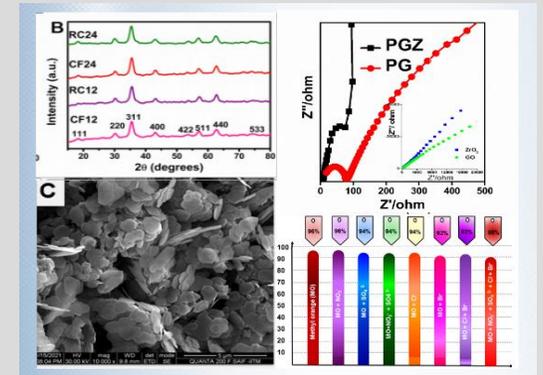
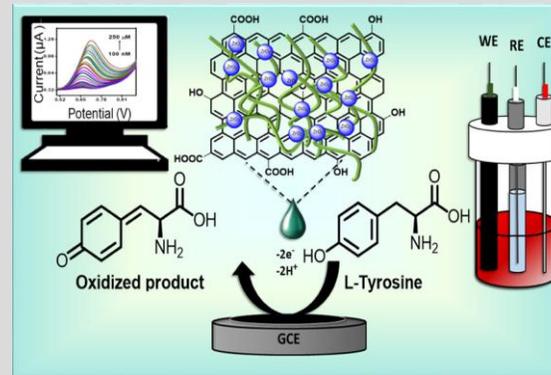
Google Scholar ID : [Suniv Vasudevan - Google Scholar](#)

Scopus ID :

Orcid ID :

Area of Research:

- Metal oxide-conducting polymer nanocomposites for biomolecule sensing applications and environmental remediation.
- Doped metal ferrites and their nanocomposites for energy and environmental applications.
- Bioactive materials for biomedical applications





Area of Research:



Name : Dr. Anuj A Vargeese
 Qualification: Ph.D., (University of Pune)

Designation : Associate Professor

Contact Number :0495-228-5327

Email :aav- at – nit.ac.in

Website address :
<https://nitc.ac.in/department/chemistry/faculty-and-staff/faculty/eb17e269-38a0-4902-a294-d282893ccb82>

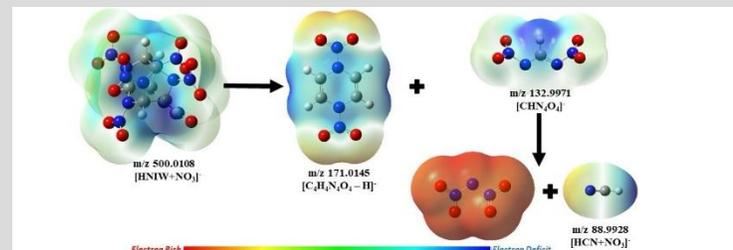
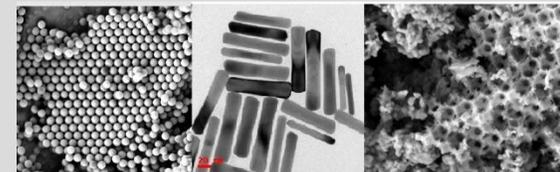
Google Scholar ID :
<https://scholar.google.com/citations?user=zpTasYwAAAAJ&hl=en&oi=ao>

Scopus ID :24170231000

Orcid ID : 0000-0003-2438-2472

• Dr. Anuj works on the development of materials for energetic applications. Major research interests include synthesis and applications of energetic nanomaterials, synthesis and applications of green oxidizers, development of green propellants and understanding the kinetics and mechanism of energetic material decomposition.

- Development of Energetic Nanomaterials and Nanocatalysts
- Development of Energetic Oxidizers
- Development of Thermoelectric Generators (TEGs)
- Kinetics and Mechanism of Energetic Materials Decomposition
- Combustion Chemistry of Solid propellants
- Life time prediction and Hazardous assessment of Energetic Materials



A Green High Density Energetic Oxidizer

Density = 1.997 g cm⁻³
 I_{sp} = 256 s
 OB: +12.90
 Td: 160 °C
 VOD = 9182 m s⁻¹
 DP: 37.80 GPa

N₂ = 42%
 CO₂ = 40%



Name : Dr. Chinna Ayya Swamy P

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Designation : Assistant Professor

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<https://swamychinnichem.wixsite.com/mysite>

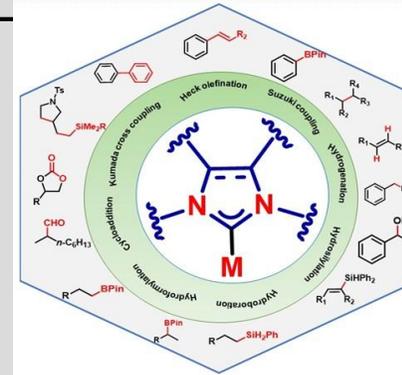
Google Scholar ID
 :<https://scholar.google.co.in/citations?user=V7ikevIAAAA&hl=en>

Scopus ID :

Orcid ID :0000-0001-7875-9517

Area of Research:

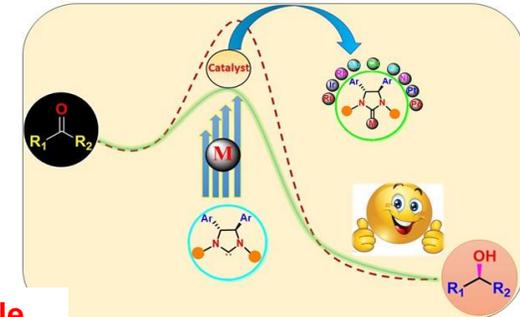
Organometallics and Catalysis



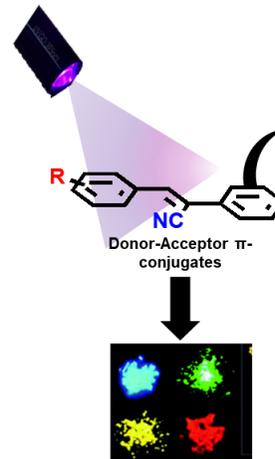
- ✓ A wide substrate tolerance
- ✓ Air and moisture stability of complexes
- ✓ Good transformations at moderate reaction conditions



- Design of various homogenous metal-ligand complexes for hydrofunctionalisation reactions
- Tuning the steric and electronic properties, determine the influence on Catalytical functions
- Efficient catalyst with a high turn over frequency, excellent conversion and selectivity is the final goal

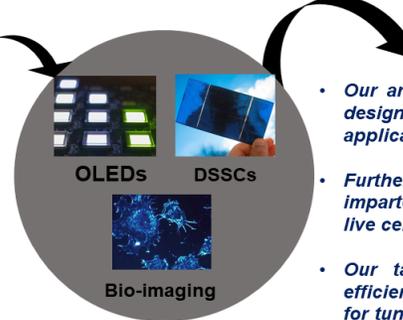


Solid State Emissive Donor-Acceptor conjugates for Versatile Applications



Emission in Solid State

Our Research Area



- Our area of research focuses on the design of excellent emitters for their application in OLEDs, DSSCs etc.
- Further, suitable functionalization are imparted to our designs to achieve live cell targeting and bio-imaging
- Our targeted design relies on the efficient Donor-Acceptor conjugates for tuned optical properties



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Chemistry



Name : Dr. Janardhan Banothu

Qualification: M.Sc., Ph.D. (National Institute of Technology Warangal)

Designation : Associate Professor

Contact Number : 8111938615 (Mobile)
0495-228-5324 (Office)

Email : janardhan@nitc.ac.in

Website address :
<https://nitc.ac.in/department/chemistry/faculty-and-staff/faculty/7cc11302-aa6f-41f1-baa6-d781397afe36>

Google Scholar ID : mYNpoSQAAAAJ

Scopus ID : 55313638600

Orcid ID : <https://orcid.org/0000-0002-2449-1647>

Area of Research:

- Synthesis of New Heterocyclic Molecules and Their Biological Applications
- Design and Development of Heterocyclic Small Molecules as Toll-Like Receptor(TLR) Agonists
- Design and Development of Eco-Friendly Methods for the Synthesis of Biologically Potent Molecules



Name : Dr. Mausumi Chattopadhyaya

Qualification : Ph.D., (University of Calcutta,
 West Bengal, India)

Designation : Assistant Professor

Contact Number : 9433710271

Email : mausumi@nitc.ac.in

Website address :

<https://scholar.google.co.in/citations?user=UpEhaWkAAAAJ&hl=en>

Google Scholar ID :

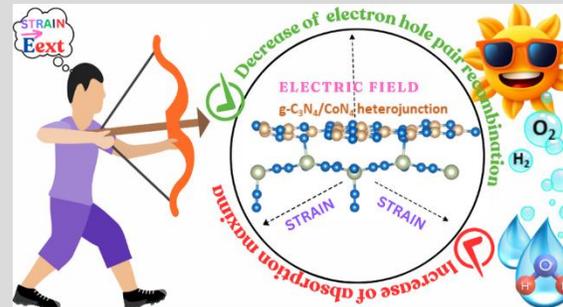
Scopus ID : 37078887000

Orcid ID : <https://orcid.org/0000-0002-0278-0472>

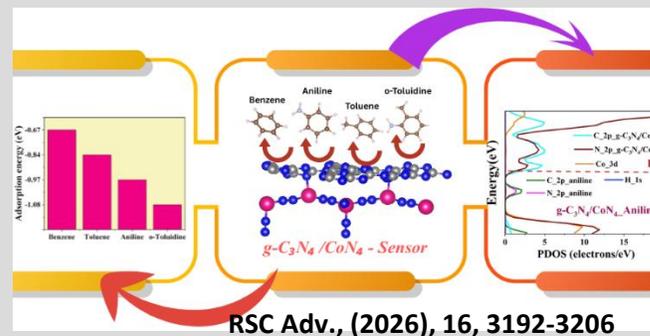
Area of Research:

Modelling of

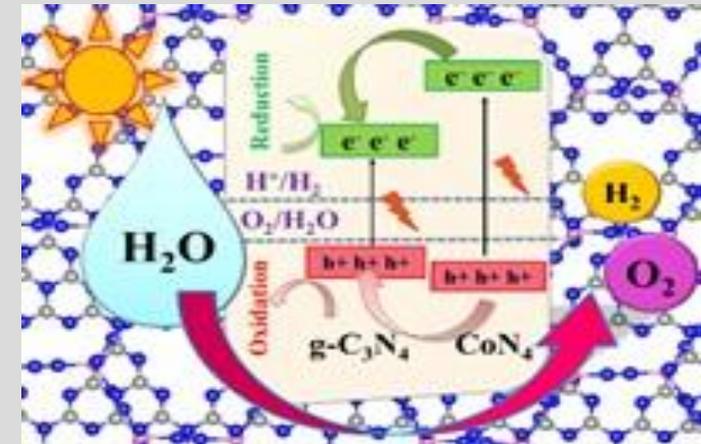
1. Catalyst
2. Sensors
3. Spintronic Devices



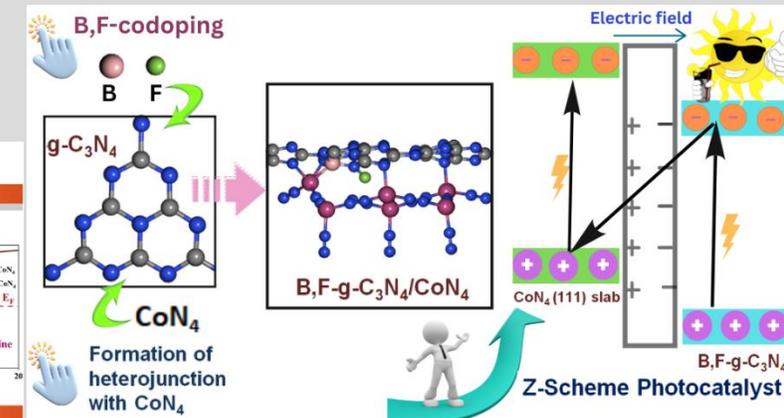
Int. J. Hydrogen Energy (2024), 91, 1136–1148



RSC Adv., (2026), 16, 3192-3206



Phys. Chem. Chem. Phys., (2024), 26, 21117–21133



J. Phys. Chem. C (2025), 129, 5625–5636



Name: Dr. Mini Mol Menampambath

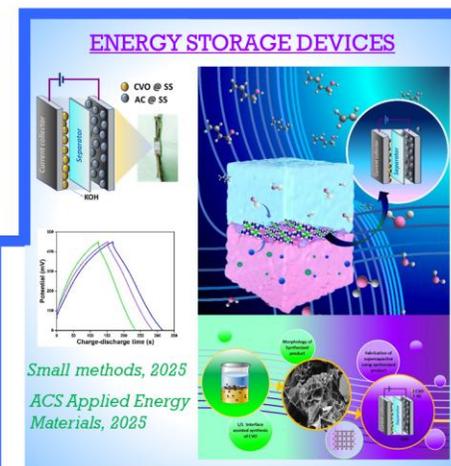
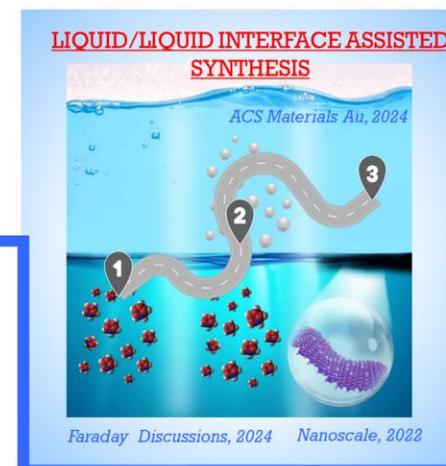
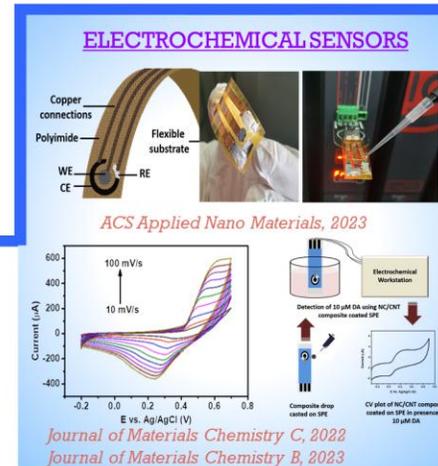
Qualification: Ph.D., (Sungkyunkwan University, South Korea)

Area of Research:

- Structural and Multi-Functional Properties Tuning of Nanomaterials
- Synthesis of Nanomaterial Composites for Applications Ranging from Point-of-Care Diagnostics to Sustainable Energy Technologies

LABORATORY FOR ADVANCED MATERIALS AND APPLIED RESEARCH (2018 - Present)

Designation : Associate Professor
 Contact Number : 0495-228-5303
 Email : minimol@nitc.ac.in
 Website address : <https://nitc.ac.in/department/chemistry>
 Google Scholar ID : xAXnhV0AAAAJ
 Scopus ID : 46461701100
 Orcid ID : 000-0001-6845-0815





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Chemistry



Name : Dr. M. Sankaralingam
Qualification : PhD (Bharathidasan University)

Area of Research: Bioinspired and Biomimetic Inorganic Chemistry

- ✓ Understanding the structure-function activity of metalloenzymes using biomimetic/bioinspired complexes
- ✓ Design and synthesis of earth-abundant transition metal catalysts for clean energy, organic transformations, and health sciences
- ✓ Identifying the short-lived intermediates in stoichiometric and catalytic reactions

Designation : Associate Professor

Contact Number : 04952285325, +91-9003586778

Email : msankaralingam@nitc.ac.in

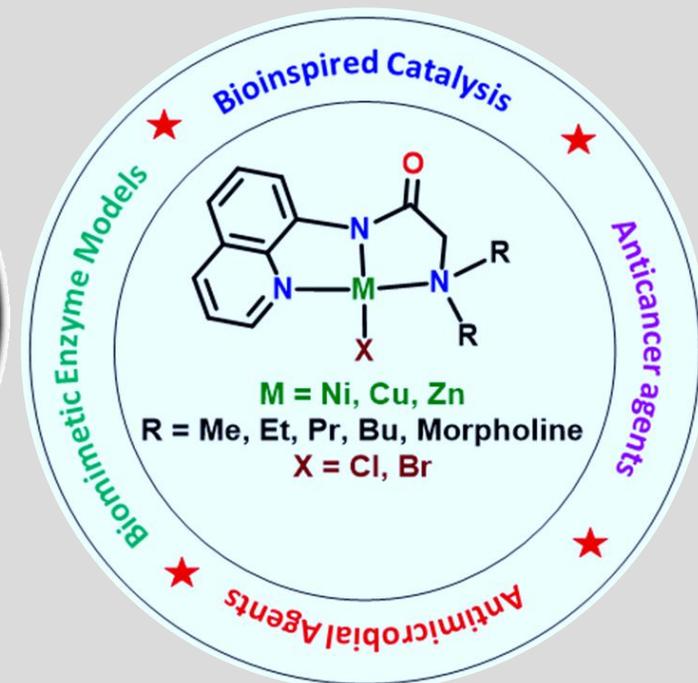
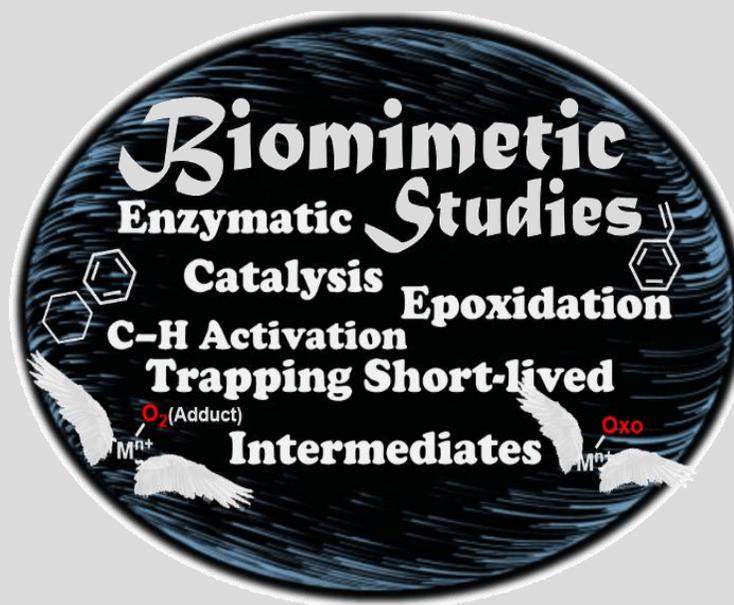
Website Address
: <https://nitc.ac.in/department/chemistry/faculty-and-staff/faculty/page/2>

<https://sites.google.com/view/sankaralingammuniyandi/?pli=1>

Google Scholar ID :
<https://scholar.google.com/citations?hl=en&user=TeGUWQYAAAAJ>

Scopus ID : 37031969400

Orcid ID : 0000-0003-1128-6887





Name : Raju Dey
Qualification: Ph.D., (Indian Association for the Cultivation of Science, Jadavpur, Kolkata)

Designation :Assistant Professor

Contact Number :7558035591

Email :rajudey@nitc.ac.in

Website address :
<https://rajudeychem.wixsite.com/raju-dey>

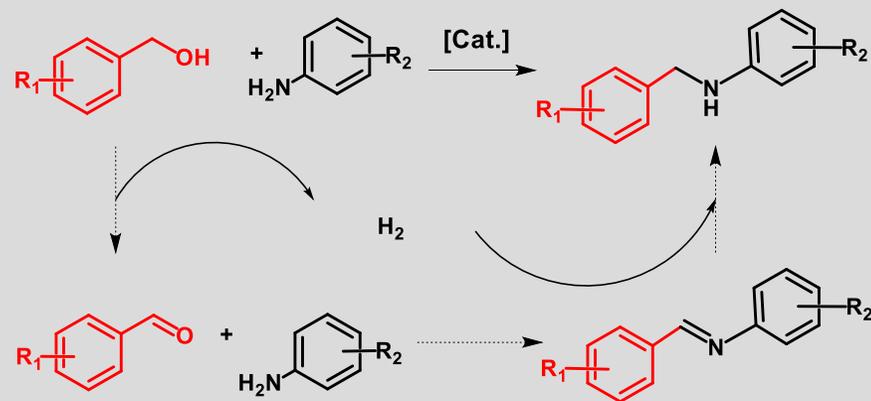
Google Scholar ID :[a4tuApYAAAAJ](https://scholar.google.com/citations?user=a4tuApYAAAAJ)

Scopus ID :24066639500.

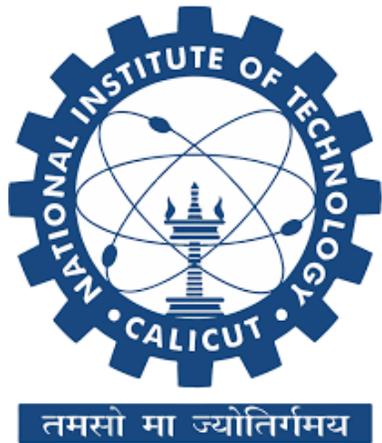
Orcid ID :0000-0001-6271-8518

Area of Research:

- Dr Raju Dey has expertise in Organic Synthesis, Heterogeneous and Nano-Catalysis
- Currently working in the area of Acceptorless Dehydrogenation and Hydrogen Borrowing Reaction



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Civil Engineering

LIST OF FACULTY

- Dr. T. M. Madhavan Pillai
- Dr. J. Sudhakumar
- Dr. M. V. L. R. Anjaneyulu
- Dr. N. Sankar
- Dr. S. Chandrakaran
- Dr. Santosh G. Thampi
- Dr. Sajith A. S.
- Dr. K. Krishnamurthy
- Dr. Mohammed Ameen
- Dr. Praveen Nagarajan
- Dr. Chithra N. R.
- Dr. George K. Varghese
- Dr. Harikrishna M.
- Dr. K. Ranga Swamy
- Dr. Robin Davis P.
- Dr. Sathish Kumar D.
- Dr. Agilan V.
- Dr. Ajeesh S. S.
- Dr. Anantha Singh T. S.
- Dr. Anil Kumar
- Dr. Anil Kumar Dash
- Dr. Anjana Bhasi
- Dr. Arunkumar R.
- Dr. Aswathy E. V.
- Dr. B Radhika
- Dr. Bhaskar S
- Dr. Ganaraj K.
- Dr. Gaurav Misuriya.
- Dr. Hillol Chakravarthy
- Dr. Jayachandran K.
- Dr. Anand K. V.
- Dr. Kondalraj R.
- Dr. M. Abdul Akbar
- Dr. M. Sivakumar
- Dr. Madhavan K.
- Dr. Mini Remanan
- Dr. Muhamed Safeer P. K.
- Dr. Munavar Fairouz C.
- Dr. Nishant Mukund Pawar
- Dr. Prateek Negi
- Dr. Prethiv Kumar R
- Ms. Reesha Bharath K.
- Dr. Renjitha Mary Varghese
- Dr. Resmi S. R.
- Dr. Rohan Bhasker
- Dr. S K Pramada
- Dr. Sanjay Singh
- Dr. Seethalakshmi P
- Dr. Sharan Kumar Goudar
- Dr. Sudha Das Khan
- Dr. Vikas Poonia
- Dr. Yogeshwar V. Navandar
- Dr. Chandru P
- Dr. Abhishek N
- Dr. Anil Sagar S
- Dr. Punith Raj G
- Dr. Anjali Balan. L
- Dr. Ranjith K.
- Dr. Ganta Shanmukha Rao
- Dr. Aniket Sanjay Desai
- Dr. Vineesh P
- Dr. Seelam Naga Poojitha



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. T. M. Madhavan Pillai

Qualification: Ph.D., (IIT Madras)

Designation : Professor (HAG) & Head
Contact Number : 0495-2286216, 09446384023
Email : mpillai@nitc.ac.in
Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/36455624-5d03-46f1-a08d-09d799ad2644>
Google Scholar ID :
Scopus ID :
Orcid ID :

Area of Research:

- Structural Analysis & Design
- Structural Reliability
- Random vibration
- Seismic Analysis & Design
- Structural Health Monitoring



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering

Area of Research:



Name: Dr. J. Sudhakumar

Qualification: Ph.D., (IIT Madras)

Designation :Professor (HAG)

Contact Number :0495-2286222, 91-94472 18789
(Mob)

Email :skumar@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/e6fc6b53-917b-457d-adca-401530047887>

Google Scholar ID :

Scopus ID :

Orcid ID :



Name : Dr. M. V. L. R. Anjaneyulu

Qualification : Ph.D., (University of Calicut)

Designation : Professor (HAG)

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Email :mvlr@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/a49f4c70-c878-4a73-a63e-0fd3a753a94c>

Google Scholar ID : nmF_OokAAAAJ

Scopus ID :

Orcid ID : 0000-0001-8107-4455

Area of Research:

- Design of at grade intersections, multi-level parking facilities, isolated and coordinated signals, grade separated intersection, area traffic control and management, NMT facilities
- Highway capacity and LoS studies
- Preparation of corridor improvement plans, urban mobility plans, Detailed Project Reports (DPRs) for transport projects and Scrutiny
- Bus route network design, scheduling,
- Multimodal passenger terminal design
- Black spot analysis and remediation, Road safety audit, Safety analysis & Modelling
- Freight demand modelling and forecasting, Routing of urban freight vehicles, Design of logistics hub
- Design of circulation plan on landside of airports, ports and railway terminals
- GIS Applications



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. N. Sankar

Qualification: Ph.D., (IIT Madras)

Designation :Professor (HAG)

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Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/c75d95ed-18f1-4e48-951b-afd9b9db7290>

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Soil-Structure Interaction
- Computer Applications in Geotechnical Engineering
- Expert System Applications in Geotechnical Engineering



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. S. Chandrakaran

Qualification: Ph.D., (IISc Bangalore)

Designation : Professor (HAG)

Contact Number : 0495-2286209

Email : chandra@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/db787a29-f5fe-40e6-9682-bb92147d57ba>

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Ground Improvement
- Soil Behaviour
- Environmental Geotechniques
- Machine Foundations
- Landslide Mitigation



Area of Research:



Name : Dr. Santosh G. Thampi

Qualification: Ph.D., (IISc, Bangalore)

Designation : Professor (HAG)

Contact Number : 0495-2286221,

Email : santosh@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/f2594734-8c1a-4300-aa2f-e5d6fc5d74f4>

Google Scholar ID : 5qXSDBIAAAAJ

Scopus ID : 24484909900

Orcid ID : 0000-0003-0638-0887

- Pipe and Channel Flows
- Hydraulic Structures
- Hydrologic Processes and Modelling
- Water Quality Modelling
- Water and Wastewater Treatment
- Application of Remote Sensing and Geographical Information Systems in Natural Resources Management
- Economics of Water Resources Systems
- Water Resources Systems Analysis & Management
- Coastal Processes and Hydrodynamics



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. Sajith A. S.

Qualification: Ph.D., (NIT Calicut)

Designation : Professor

Contact Number : 04952286211,9947311812

Email : sajithas@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/01da9db3-4322-4f5a-b0f2-11769eb01926>

Google Scholar ID : PiiCvWAAAAAJ&hl

Scopus ID :

Orcid ID : [0000-0003-2595-4161](https://orcid.org/0000-0003-2595-4161)

Area of Research:

- Area of research : Structural control, Earthquake Engineering
- Consultancy experience; Design, scrutiny, structural evaluation.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. K. Krishnamurthy

Qualification: Ph.D., (IIT Madras)

Designation :Professor

Contact Number :0495-2286208,9567382944

Email :kk@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/61ae1e69-be6a-4b36-a9b9-e18353bfae42>

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Traffic Flow Operations and Management
- Road Safety under Mixed Flow
- Accident Analysis
- Transportation Economics and Appraisal
- Non-motorized Transportation
- Environmental Impact Assessment of Transport Projects



Name : Dr. Mohammed Ameen
Qualification: Ph.D., (IISc Bangalore)
Post-doctoral fellowship: Biomed Eng
Dept, Johns Hopkins
University, Baltimore, USA

Designation : Professor

Contact Number : (+91) 495 228 6214, (+91) 495 228
7577

Email : ameen@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/191b16a2-d7ef-4262-8d9c-22641f95128c>

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Computational Structural Mechanics
- Finite Element Method
- Boundary Element Method



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. Praveen Nagarajan

Qualification: Ph.D., (NIT Calicut)

Designation : Professor

Contact Number : 0495-2286220

Email : praveen@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/660212c9-4eac-4e46-ba52-b318ee359264>

Google Scholar ID :

Scopus ID :

Orcid ID : 0000-0002-3411-8352

Area of Research:

- Design and conditional assessment of concrete and steel structures
- Reinforced and Prestressed Concrete
- Bridge Engineering
- Structural Reliability



Name: Dr. Chithra N. R.

Qualification: Ph.D., (NIT Calicut)

Designation :Associate Professor

Contact Number :04952286228

Email :chithranr@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/1cbd23a7-e240-4451-9cb6-ae177f0b2428>

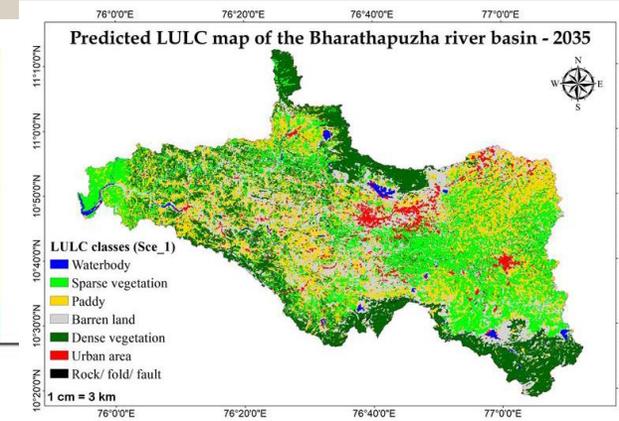
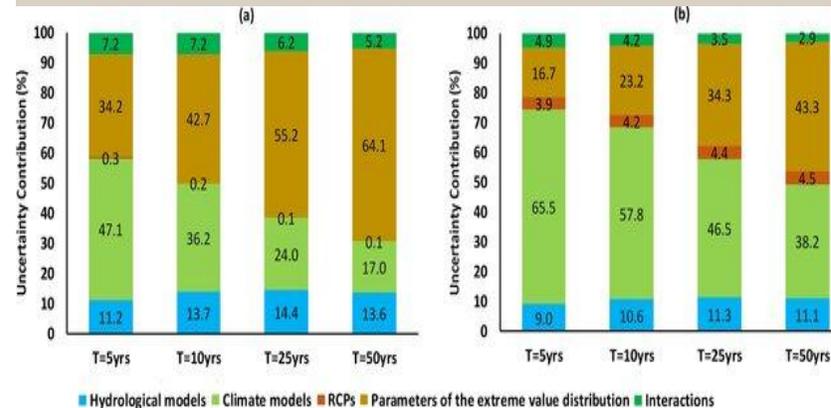
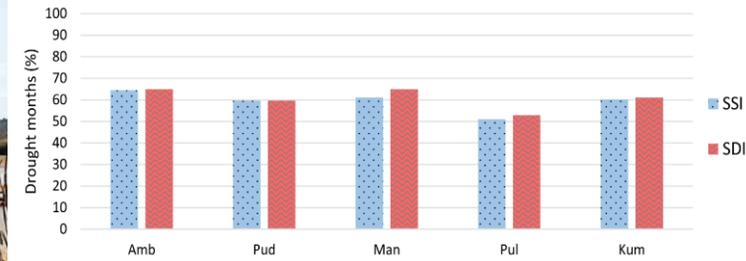
Google Scholar ID :fHh0-c4AAAAJ

Scopus ID :57195451678

Orcid ID :0000-0003-2555-0263

Area of Research:

- Watershed Modelling
- Climate change impact assessment in hydrology
- Modelling and analysis of hydrological extremes (flood and drought)





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: **Civil Engineering**



Name: Dr. George K. Varghese

Qualification: Ph.D., (IIT Delhi)

Designation : Associate Professor

Contact Number : 9744341214

Email : gkv@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty>

Google Scholar ID :
<https://scholar.google.co.in/citations?user=rpL3kuwAAAAJ&hl=en>

Scopus ID :55343645300

Orcid ID : [0000-0002-5327-2697](https://orcid.org/0000-0002-5327-2697)

Area of Research:

- Environmental Forensics, Environmental Risk Assessment, Environmental Impact Assessment, Environmental Law and Policy



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: **Civil Engineering**



Name: Dr. Harikrishna M.

Qualification: Ph.D., (IIT Roorkee)

Designation : Associate Professor

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Google Scholar ID : Ee2gu9QAAAAJ

Scopus ID :

Orcid ID : 0000-0002-5102-6898

Area of Research:

- Travel behaviour modelling
- Capacity and Level of Service Estimation of Transport Facilities
- Road Safety Studies.
- Preparation of corridor improvement plans, urban mobility plans, Detailed Project Reports (DPRs) for transport projects and Scrutiny



Name: Dr. K. Ranga Swamy

Qualification: Ph.D., (IIT Madras)

Designation : Associate Professor

Contact Number : 9846162955

Email : ranga@nitc.ac.in

Website address : nitc.ac.in

Google Scholar ID : [Hanze9IAAAAJ&hl=en&oi=ao:](https://scholar.google.com/citations?hl=en&oi=ao&user=Hanze9IAAAAJ)

Scopus ID : 36457218500

Orcid ID : [0000-0003-2257-5801](https://orcid.org/0000-0003-2257-5801)

Area of Research:

- Soil investigations / Ground improvement / Dynamics of soils and foundations / Landslide modelling / slope stability
- Expertise with MASW, and Seismic cross hole field testing
- Familiar with static and cyclic triaxial testing, and bender element



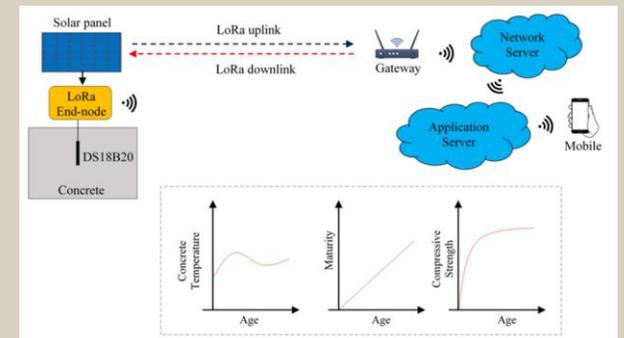
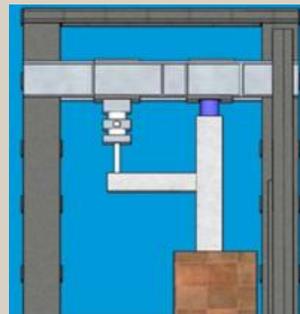
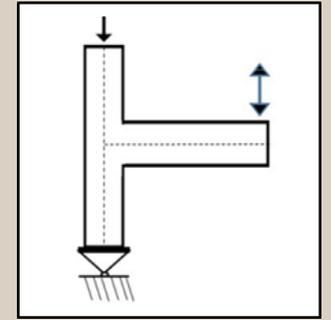


Name: Dr. Robin Davis P.
 Qualification: Ph.D., (Institute)

Designation : Associate Professor
 Contact Number :04952286201
 Email :robin@nitc.ac.in
 Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/7779c7b1-2f46-4b41-8279-12d0843fd5ed>
 Google Scholar ID :GLpiPTUAAAAJ
 Scopus ID :57208560710
 Orcid ID :0000-0001-6281-5393

Area of Research:

- Risk Analysis of Structures for Various Natural Hazards, Earthquake, Flood etc.
- Machine Learning Applications in Structural Engineering
- Condition Assessment and Repair of Structures





Name: Dr. Sathish Kumar D.
 Qualification: Ph.D., (IIT Roorkee)

Designation :Associate Professor

Contact Number :+91 9400 601 641

Email :sathish@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/740a357c-675a-40c0-8b94-96d7293ada54>

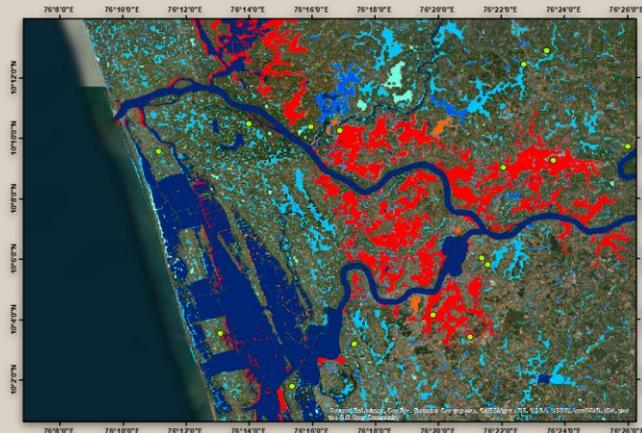
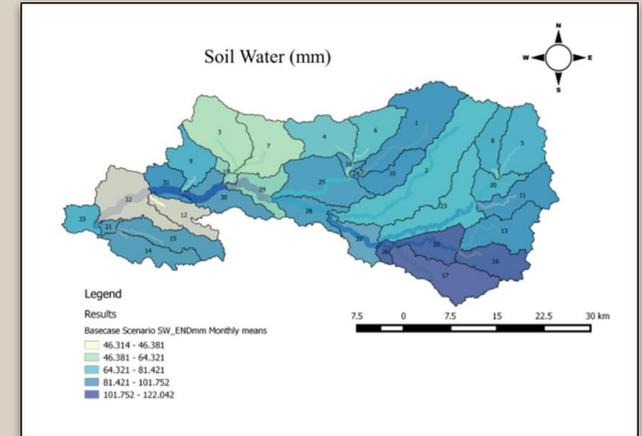
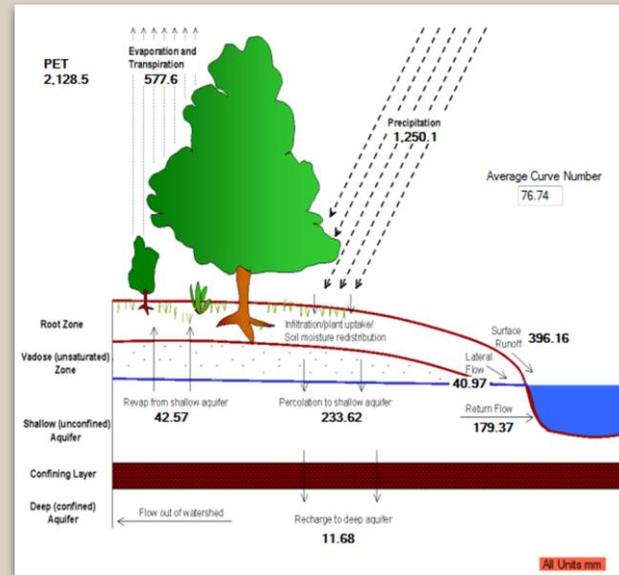
Google Scholar ID : KNfbXrcAAAAJ

Scopus ID : 55774829800

Orcid ID : 0000-0002-1432-4343

Area of Research:

- Urban Flood Modelling
- Flood Forecasting
- Drought Studies





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering

Area of Research:

- Non-stationary behaviour of hydro-climatic extremes: Detection and Modelling
- Climate change impacts on hydrology
- Air pollution
- Remote Sensing: Satellite Altimetry; LULC modelling

Name : Dr. Agilan V.

Qualification : Ph.D., (Institute)

Designation : Assistant Professor

Contact Number : +91 495 228 6251

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Google Scholar ID : RUXEYh4AAAAJ

Scopus ID : 56766214600

Orcid ID : 0000-0002-4791-2627



Name : Dr. Ajeesh S. S.

Qualification : Ph.D., (IIT Madras)

Designation : Assistant Professor

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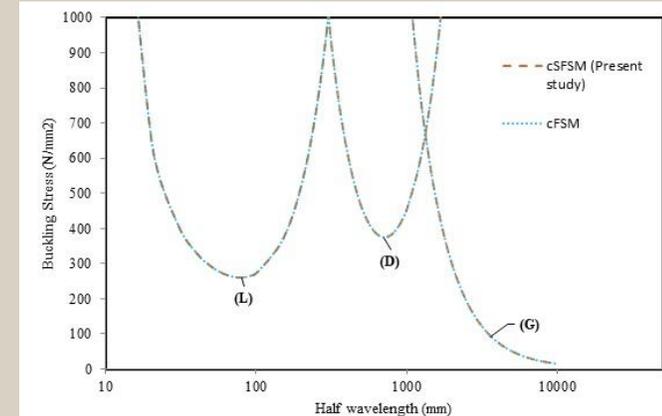
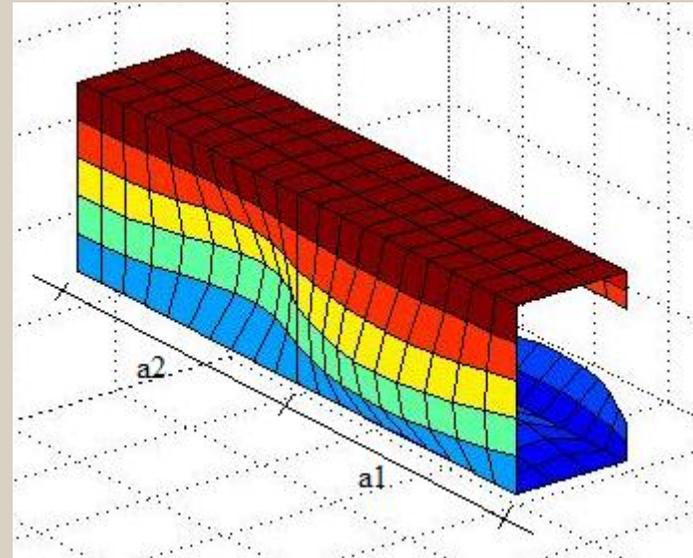
Google Scholar ID : fJI3EcgAAAAJ

Scopus ID : 57189692880

Orcid ID : 0000-0002-9707-3833

Area of Research:

- Computational methods on structural stability of thin plated structures using spline finite strip method and generalized beam theory
- Non-linear analysis for the mode characterization of thin-walled structural members
- Behaviour of steel structures under fire and impact





Name: Dr. Anantha Singh T. S.

Qualification: Ph.D., (NIT Trichy)

Designation : Assistant Professor

Contact Number : 8758790511

Email : singh87@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/f780dfce-fab6-4d83-b0ef-699838abbbbf>

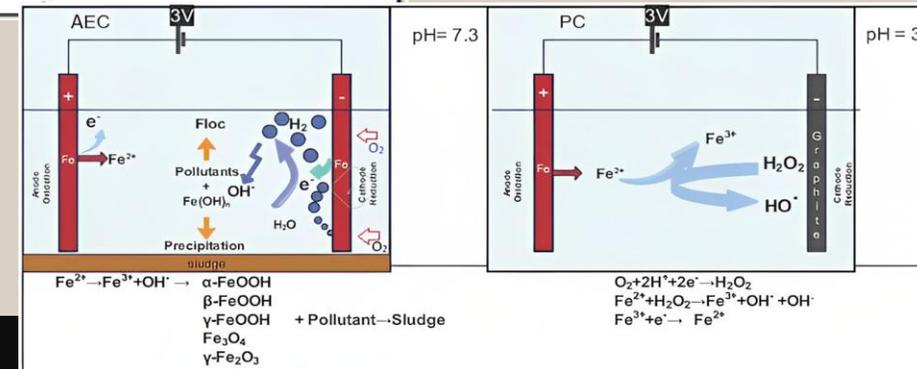
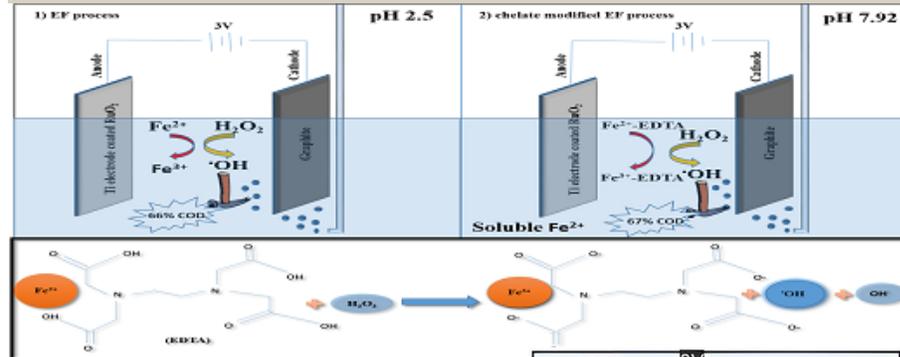
Google Scholar ID : <https://scholar.google.com/citations?user=4MgXNssAAAAJ&hl=en&oi=ao>

Scopus ID : 55372350200

Orcid ID : <https://orcid.org/0000-0002-7735-497X>

Area of Research:

- Electrochemical methods for the treatment of Industrial wastewater and domestic wastewater
- Treatment of Ammoniacal Nitrogen from wastewater in the presence and absence of carbon pollutant
- Plasma techniques for the complete mineralisation of pollutants present in the wastewater.





Name : Dr. Anil Kumar

Qualification: Ph. D. (NIT Surathkal)

Designation : Assistant Professor

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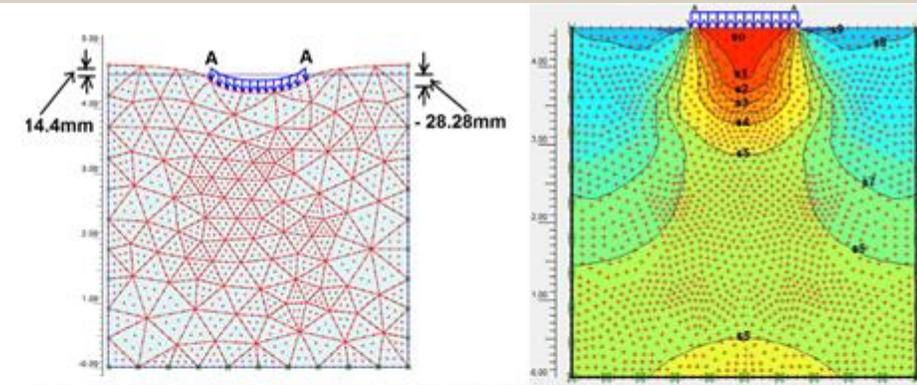
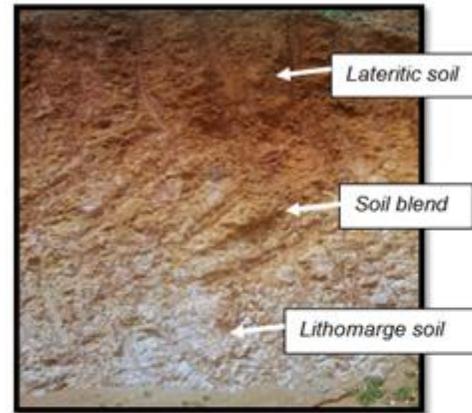
Google Scoler ID :

Scopus ID : 57307680500

Orcid ID :

Area of Research:

- Area of Research: Soil dynamics, Ground improvement techniques, Foundation engineering, Sustainable materials in road construction.



Study of resilient properties of soil using experimental and numerical modeling



Utilization of Industrial waste in road construction



Name : Dr. Anil Kumar Dash

Qualification : Ph.D., (IIT Kharagpur)

Designation : Assistant Professor

Contact Number : +91-8348468078

Email : anilkumar@nitc.ac.in,
bouanil@gmail.com

Website address :
<https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/2414e1d0-5821-4507-b351-4e7530ef71b4>

Google Scholar ID : T8E68LgAAAAJ

Scopus ID :

Orcid ID :

Area of Research:

- **Naval Hydrodynamics:** Ship maneuvering, Towing tank experiments, Planar motion mechanism (PMM) Hull-propeller-rudder interaction,
- **CFD:** Simulation of Ship, Submarine motion using OpenFOAM
- **Uncertainty quantification and propagation:** Stochastic response surface method, Monte Carlo technique.
- **Nonlinear dynamics:** Stability and bifurcation analysis of steady state ship maneuvering, Numerical continuation, MATCONT.
- **Fluid-Structure interaction:** Vibration of marine propeller blade
- **Finite Element Analysis of Plate and Shell:** Propeller blade, forced vibration in ship maneuvering



Name: Dr. Anjana Bhasi

Qualification: Ph.D., (IIT Madras)

Designation :Assistant Professor

Contact Number :04952286234

Email :anjanabhasi@nitc.ac.in

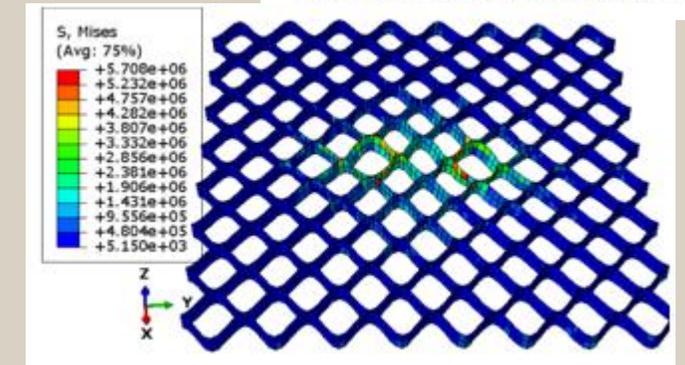
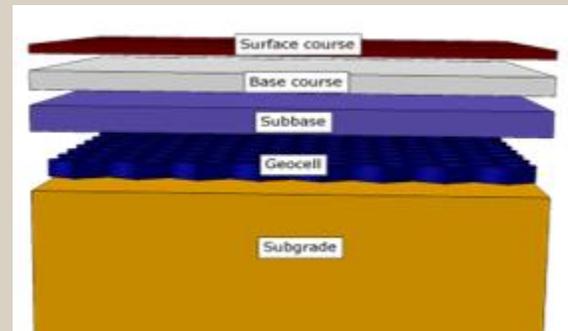
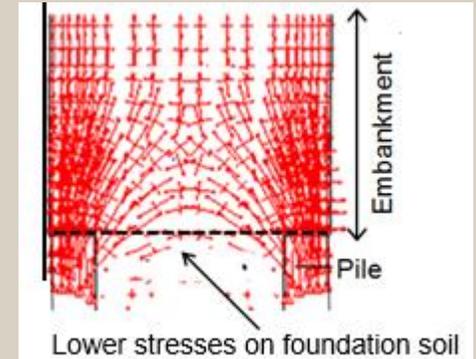
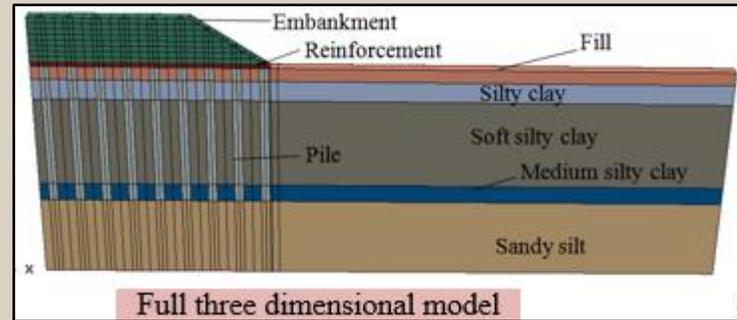
Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/5589cf99-69f1-4b72-a208-c523188aeba3>

Scopus ID :55883830600

Orcid ID 0000-0002-5096-2924:

Area of Research:

- Finite Element Modelling and Simulation of Geotechnical Engineering Structures, Ground Improvement Methods, Geosynthetics for reinforcement of earth structures, Soil Mechanics and Foundation Engineering





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Arunkumar R.

Qualification: Ph.D., (IIT Bombay)

Area of Research:

- Hydrology and Water Resources Engineering
- Water Resources System Analysis
- Application of Soft Computing Techniques in Water Resources
- Climate Change Impact Assessment on Water Resources

Designation : Assistant Professor

Contact Number : +91 495 228 6252

Email : arunkr@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/c68af38d-e8c7-4b6f-bc6e-3575b72ec191>

Google Scholar ID : FhA6X6kAAAAJ

Scopus ID : 36112836800

Orcid ID : 0000-0002-4211-7480



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Aswathy E. V

Qualification: Ph.D., (Institute)

Area of Research:

- Bioaerosol characterization
- Air pollution and Control
- Water and Wastewater Treatment

Designation :Assistant Professor

Contact Number :9496344766

Email :aswathy@nitc.ac.in

Website address :

Google Scholar ID :

Scopus ID :56893785200

Orcid ID :0000-0002-0084-7338



Name : Dr. B Radhika

Qualification : Ph.D. (IISc. Bangalore)

Designation : Assistant Professor

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Email : bradhika@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/db9c3c9e-4784-4988-a9ef-5a4f0aa8560c>

Google Scholar ID : <https://scholar.google.com/citations?user=EIMo5xEAAAAJ&hl=en>

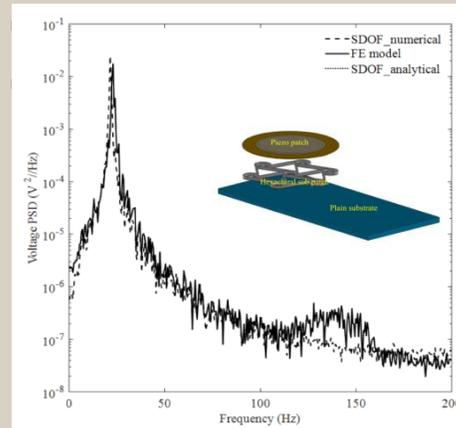
Scopus ID : 57193514975

Orcid ID : 0000-0001-8641-3663

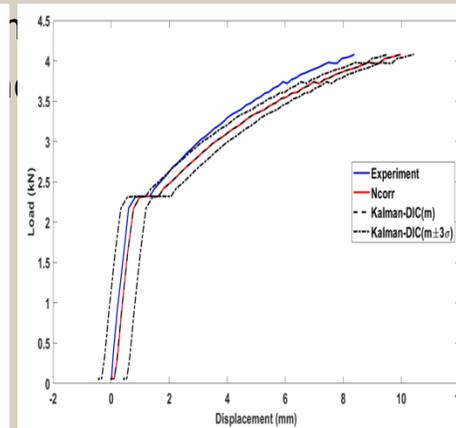
Areas of Research:

- Structural dynamics
- Random vibrations
- Structural health monitoring
- Monte Carlo methods and model updating
- Structural reliability analysis
- Vehicle pavement interaction studies
- Performance based earthquake engineering
- Signal processing for vibration characterization

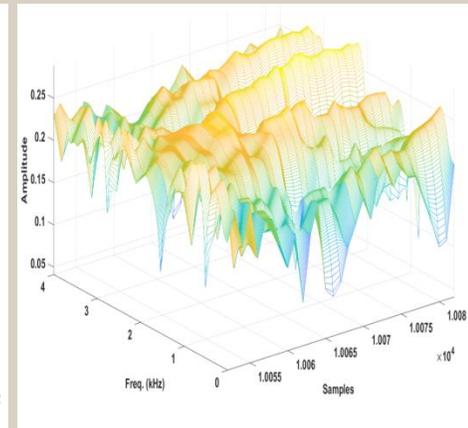
Consultancy : Structural health monitoring of bridges



Vibration characterization of energy harvesters



Variance reduction in model updating



SHM using signal processing



Name : Dr. Bhaskar S

Qualification : Ph.D., (NITK)

Designation : Assistant Professor

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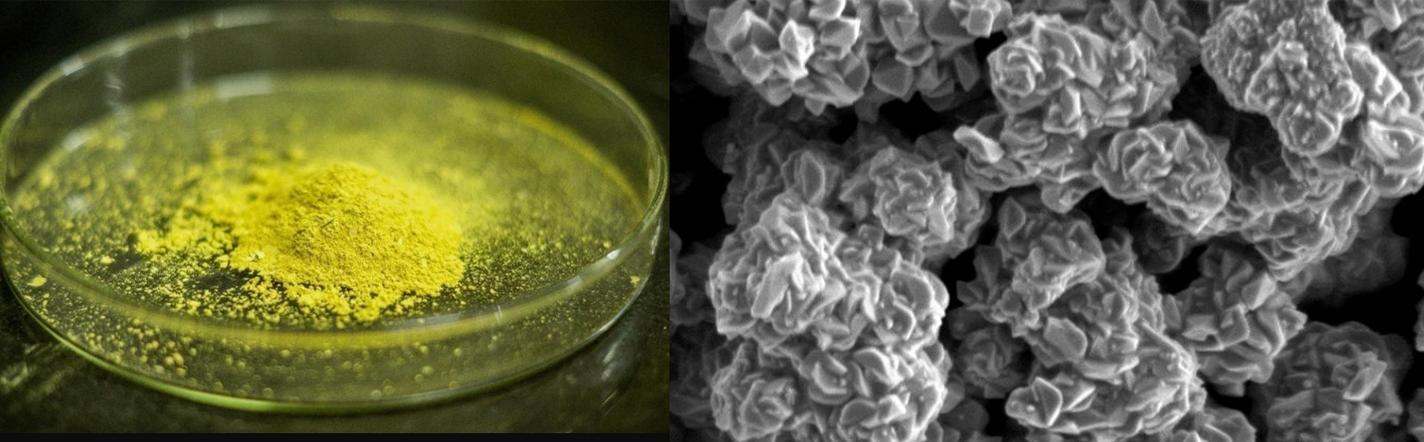
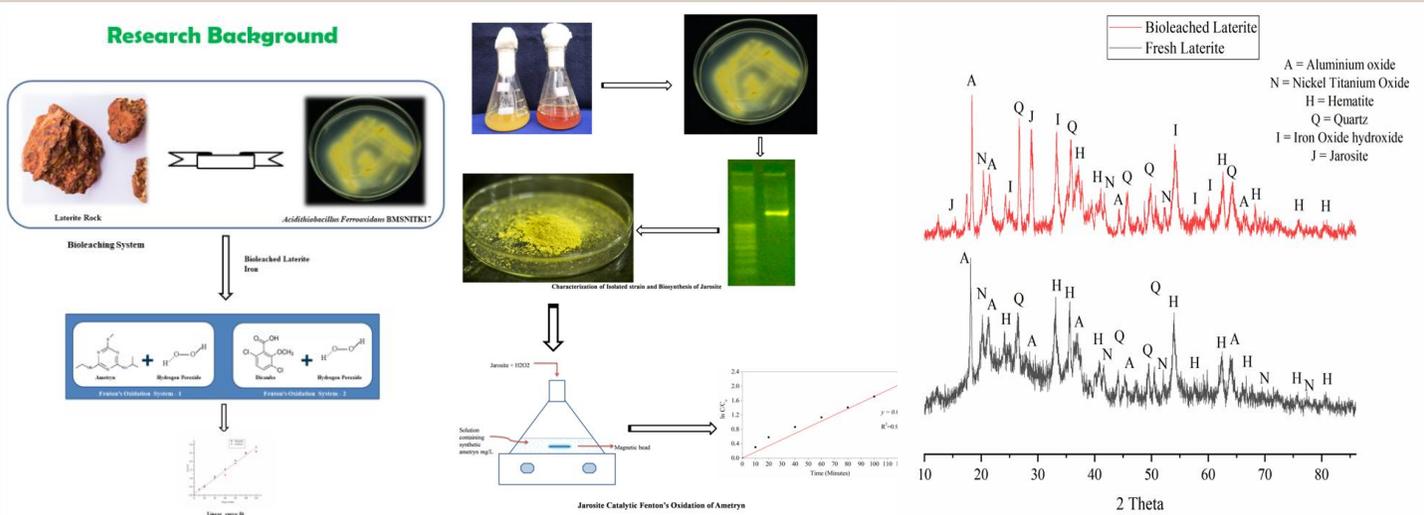
Google Scholar ID :
<https://scholar.google.com/citations?user=lpZod3UAAAJ&hl=en&oi=sra>

Scopus ID : 57205261275

Orcid ID : 0000-0002-0203-3629

Area of Research:

- Bioleaching, Water and Wastewater Treatment, Biomining of valuable minerals from low-grade ores, Advanced Oxidation Process





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. Ganaraj K.

Qualification : Ph.D., (IIT Bombay)

Designation :Assistant Professor (grade II)

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Google Scholar ID :XySYIJsAAAAJ&hl

Scopus ID : 57200969180

Orcid ID :0000-0003-4532-5186

Area of Research:

- Municipal and Industrial Solid Waste Management,
- Decontamination of soils
- Soil Stabilization
- Environmental Geotechnology
- Water and Wastewater treatment



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. Gaurav Misuriya.

Qualification : Ph.D., (IIT Bombay)

Designation :Assistant Professor

Contact Number : 8291474108

Email : gauravmisuriya@nitc.ac.in

Website address :

Google Scholar ID:

<https://scholar.google.co.in/citations?user=AWprBZIAAAAJ&hl=en&oi=ao>

Scopus ID :57224122135

Orcid ID :0000-0002-5233-0226

Area of Research:

- Open Channel Hydraulics
- Local Scour
- Unsteady Turbulent Flow
- Wave and Current Interaction



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Hillol Chakravarthy

Qualification: Ph.D., NIT Patna

Designation : Assistant Professor

Contact Number : +917765883445

Email : hillol@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/8a2412ac-c5f9-4a86-b2a4-f78e8144cfb4>

Google Scholar ID : 7fN7zQAAAAJ&hl=en

Scopus ID : 57210787152

Orcid ID :

Area of Research:

Design of pavements

Development and evaluation of alternative materials for pavements





Name: Dr. Jayachandran K

Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor

Contact Number : +91 94422 64411 , 0495 228 6237

Email : jk@nitc.ac.in

Website address :

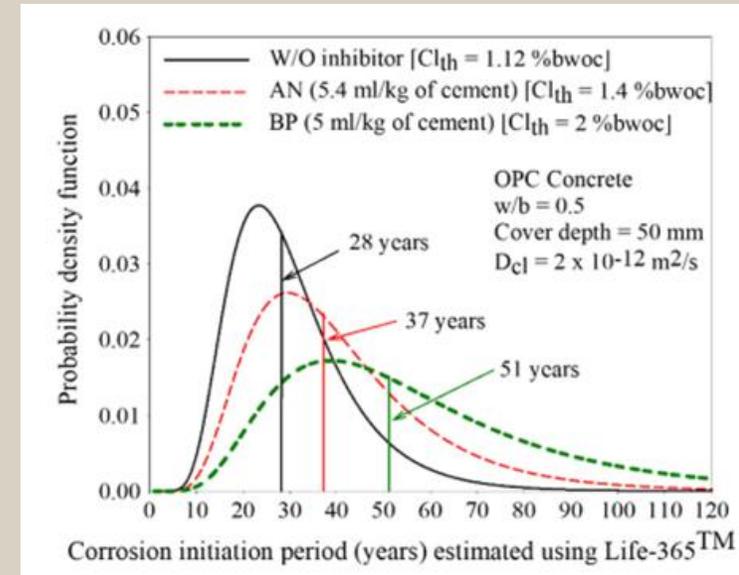
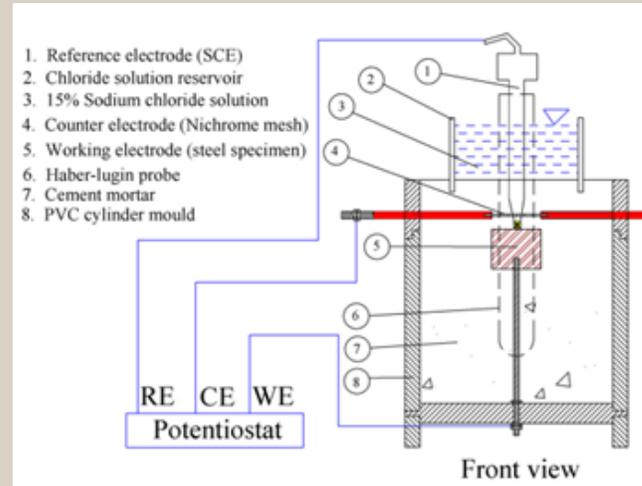
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Orcid ID : 0000-0003-3360-9202

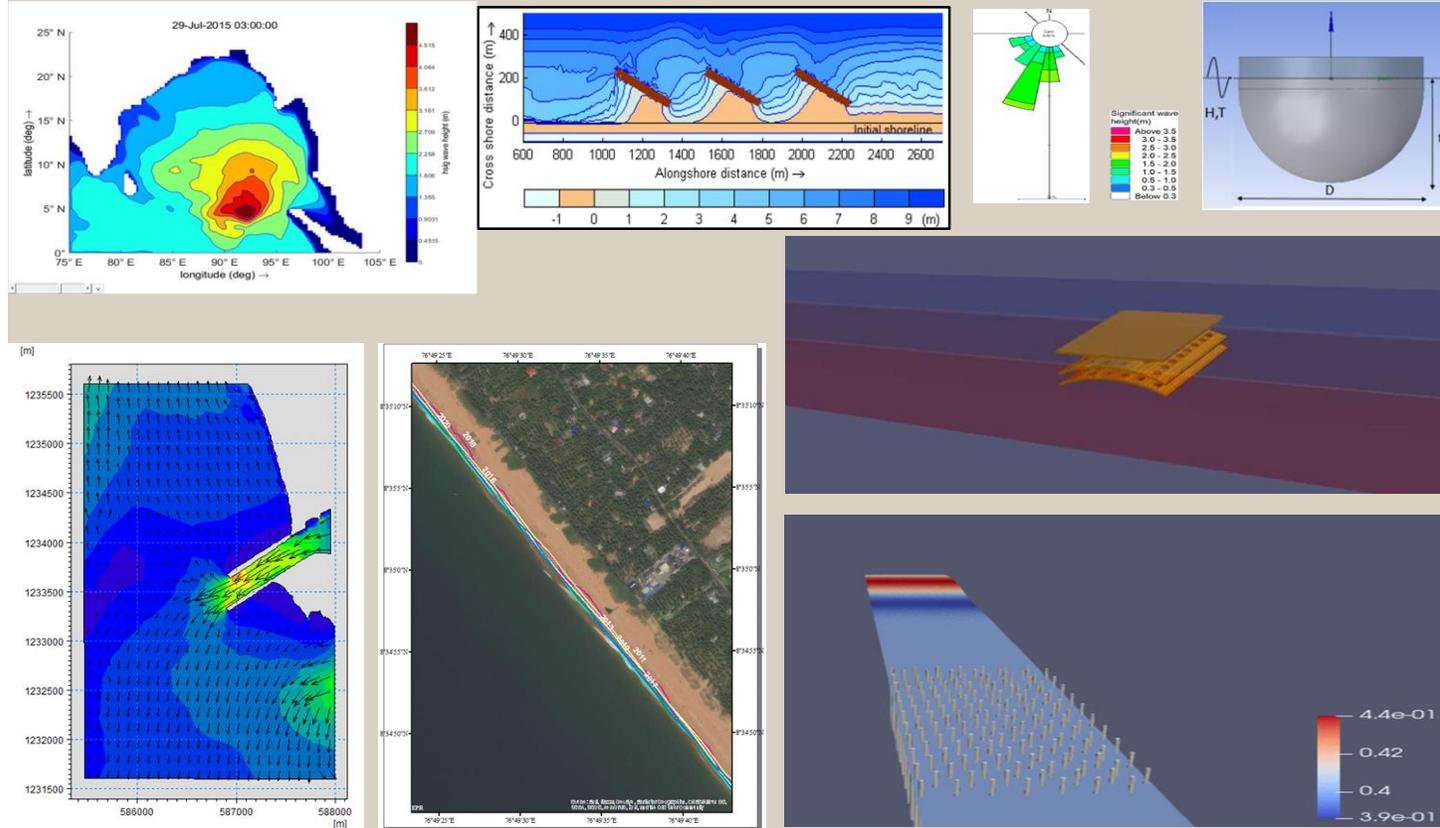
Area of Research:

- Durability of concrete structures (Assessment; Test methods; Modelling; Performance specifications)
- Service life estimation of reinforced concrete structures
- Cathodic protection systems for corrosion mitigation
- Non-destructive Techniques for assessment of structures
- Design and performance assessment for special concrete's



Area of Research:

- Currently working on Coastal erosion and protection, Wave structure interaction problems, Extreme wave events (Cyclones), Wave (renewable) energy and GIS applications to Coastal engineering



Name : Dr. Anand K. V.

Qualification : Ph.D., (Institute)

Designation : Assistant Professor

Contact Number : 9940084140

Email : kvanand@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/c871fa90-e176-4b81-bb79-6c2ffbee7d63>

Google Scholar ID : <https://scholar.google.com/citations?user=Jpu0qKwAAAAJ&hl=en&oi=sra>

Scopus ID : 57131502500

Orcid ID : 0000-0002-5024-6741



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Kondalraj R.

Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor

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Email : kondalrajr@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/5799ca60-655c-4770-9d27-8fd1055ff7e5>

Google Scholar ID
: <https://scholar.google.com/citations?user=gmdbciwAAAAJ&hl=en>

Scopus ID :57222352560:

Orcid ID :0000-0002-5257-1679

Area of Research:

- Structural Engineering
- Analysis and Design of Reinforced and Prestressed Concrete Structures
- Design of Disturbed Regions using Strut-and-Tie Model



Name: Dr. M. Abdul Akbar

Qualification: Ph.D., (NIT Calicut)

Designation :Assistant Professor

Contact Number :9037816460

Email :maa@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/796730fb-878d-49f9-8bed-bcae4f45fc80>

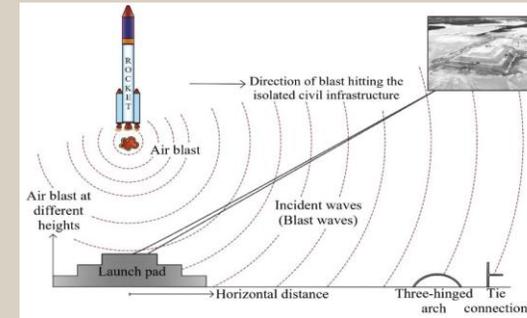
Google Scholar ID : cTnqt9MAAAAJ&hl=en

Scopus ID: 57188689756 :

Orcid ID: 0000-0002-4221-4395:

Area of Research:

- Structural Analysis and Design, Finite Element Analysis, Offshore Structures, Blast loading, Seismic loading, Wind Energy
- During Industrial experience, I had worked on Design of Tall Buildings. Some Notable projects are Wave One, Noida and Palais Royale, Mumbai





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: **Civil Engineering**



Name: Dr. M. Sivakumar

Qualification: Ph.D., (NIT Calicut)

Designation :Assistant Professor Gr. I

Contact Number : +91 9446452997

Email :sivakumarm@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/d0c07503-fd47-41d2-a708-01c924cd7cfb>

Google Scholar ID
: <https://scholar.google.com/citations?hl=en&user=hJ24pxAAAAAJ>

Scopus ID :

Orcid ID : [0000-0002-4747-3070](https://orcid.org/0000-0002-4747-3070),

Area of Research:

- Transportation Engineering: Pavement Material Characterisation
- Mechanistic Empirical Pavement Design
- Alternative Materials in Pavemnet Construction and Maintenance



Name : Dr. Madhavan K.
 Qualification : Ph.D., (IIT Bombay)

Designation : Assistant Professor

Contact Number : 9987105797

Email : madhavan@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/9c7e9e1e-0f24-4c02-81d2-5f369969e7e1>

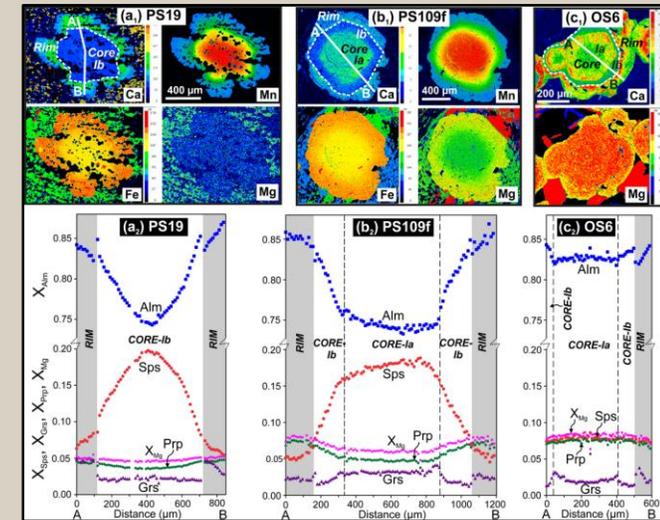
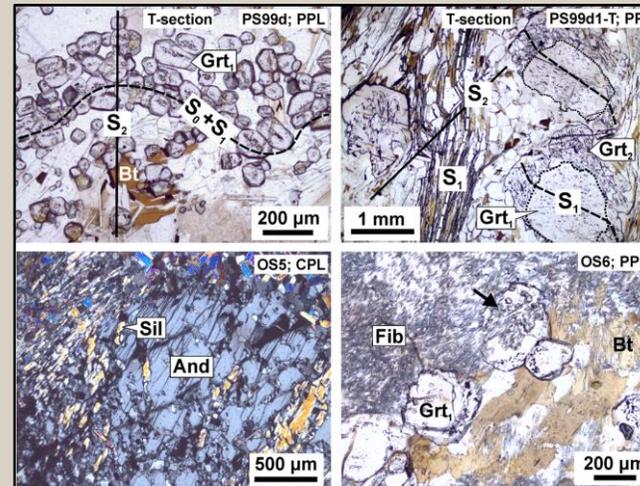
Google Scholar ID : <https://scholar.google.com/citations?user=HL5wKdkAAAAJ&hl=en>

Scopus ID : 57194560148

Orcid ID : <https://orcid.org/0009-0001-2805-3556>

Area of Research:

- Geological and Geotechnical investigation of Landslides.
- Petrology and Exploration geology





Name: Dr. Mini Remanan

Qualification: Ph.D., (IIT Madras)

Designation :Assistant Professor

Contact Number : 9387818525

Email :mini@nitc.ac.in

Website address :

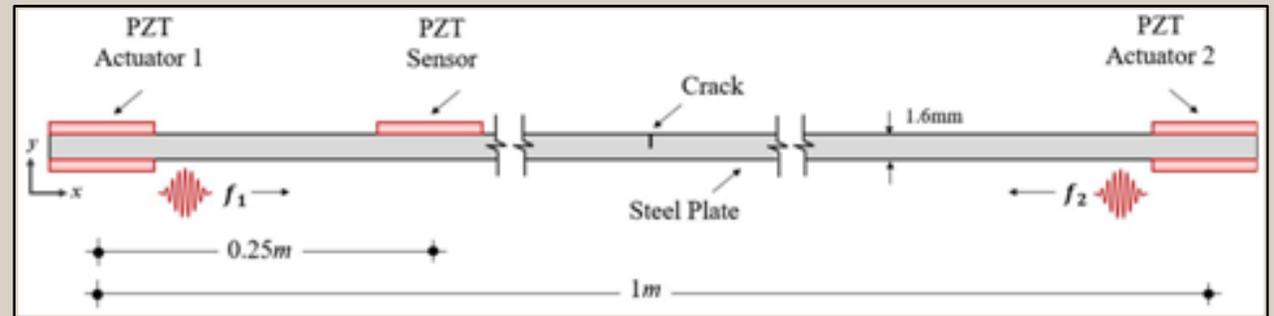
Google Scholar ID: J7MilZgAAAAJ

Scopus ID :

Orcid ID :

Area of Research:

- Micro-damage detection in structural elements using nonlinear wave mixing





Name : Dr. Muhamed Safer P. K.

Qualification : Ph.D., (IIT Delhi)

Designation : Assistant Professor

Contact Number : 9895599785

Email : msafeerpk@nitc.ac.in

Website address :

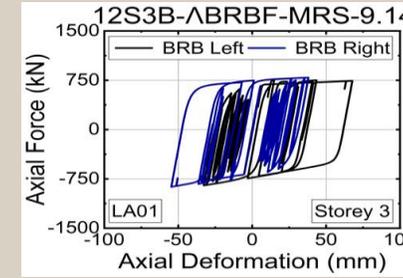
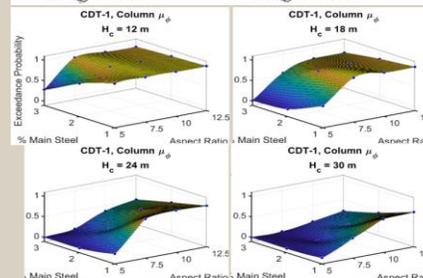
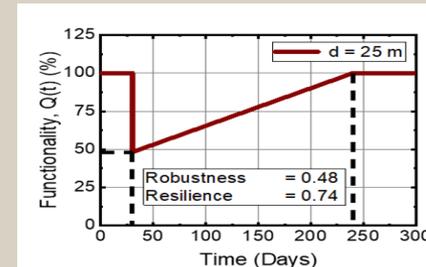
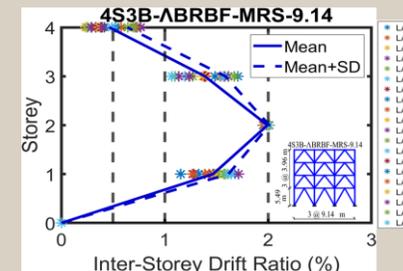
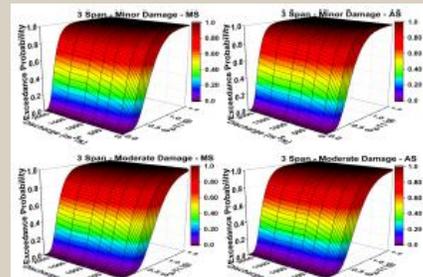
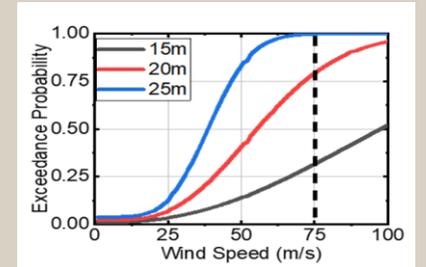
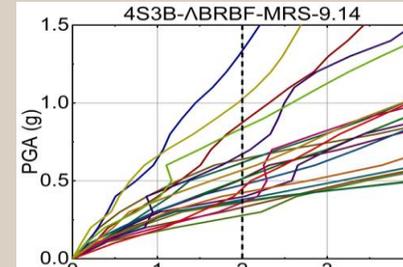
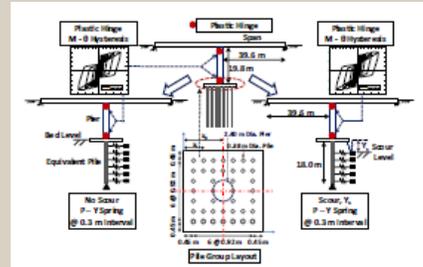
Google Scholar ID: =FJ_d8vIAAAAJ&hl=en

Scopus ID : 56626146500

Orcid ID : 0000-0001-8325-4716

Area of Research:

- Resilience and robustness assessment of steel framed structures, RC bridges and wind turbines against extreme loadings.





Name: Dr. Munavar Fairooz C.
 Qualification: Ph.D., (IIT Khatagpur)

Designation :Assistant Professor

Contact Number :7557818784

Email :fairoozmunavarc@gmail.com

Website address :<https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/8ff967fc-9507-421f-ac23-907143cf0ad8>

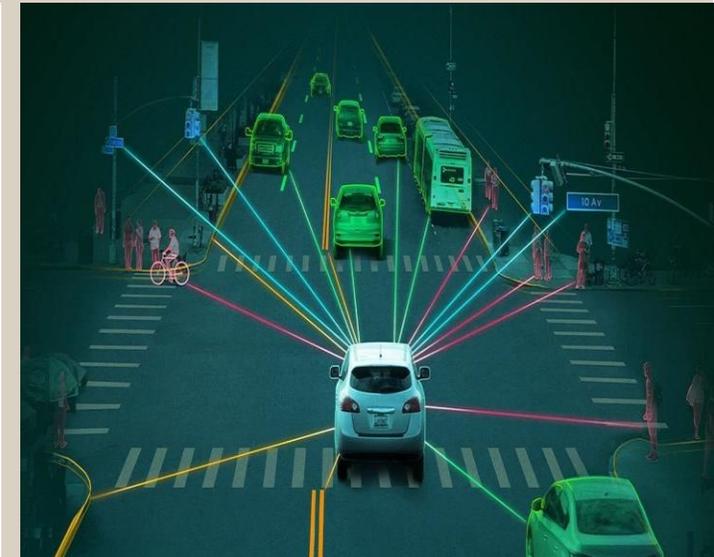
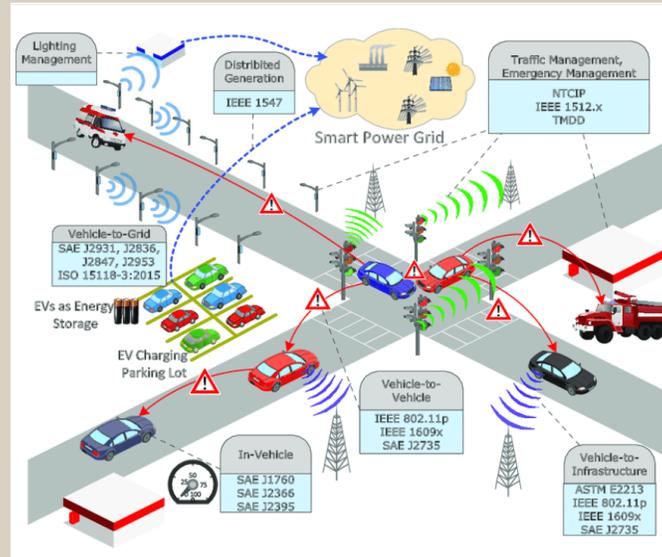
Google Scholar ID :<https://scholar.google.com/citations?user=4B0SodQAAAAJ&hl=en&authuser=1>

Scopus ID :<https://www.scopus.com/search/form.uri?display=basic#basic>

Orcid ID :<https://orcid.org/0000-0002-5273-0529>

Area of Research:

- Transportation Planning, Multi-modal Transportation Systems, Road Safety, Big Data Analysis, Machine Learning for Transportation Planning, Maritime transport
- Use a graphical representation describing your research(one or two images), if interested.





Name: Dr. Nishant Mukund Pawar

Qualification: Ph.D., (IIT Bombay)

Designation : Assistant Professor

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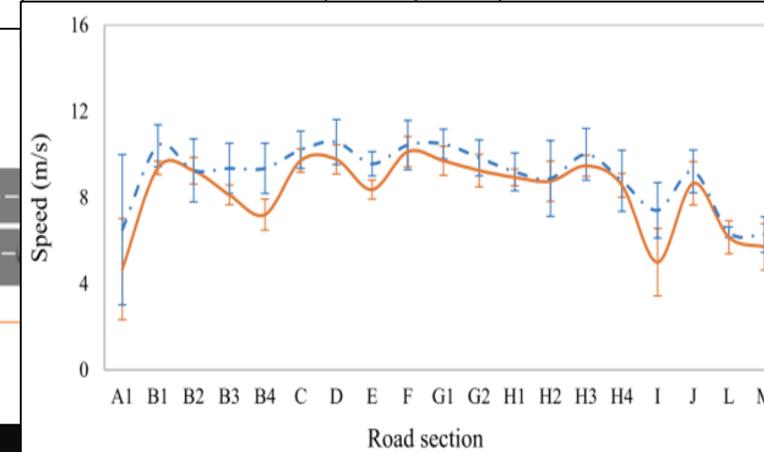
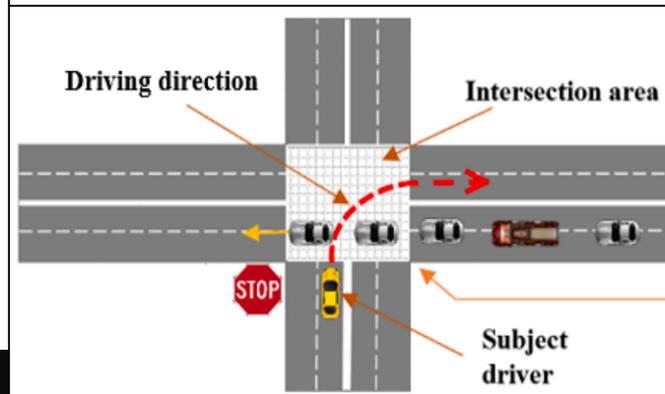
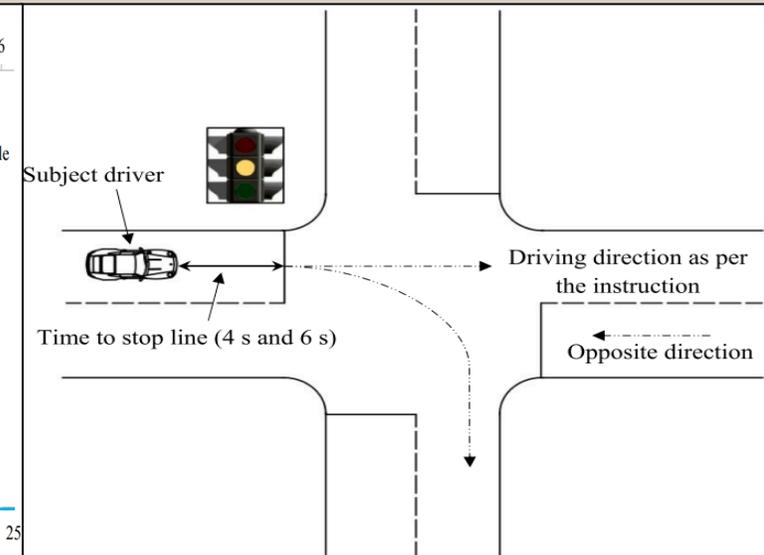
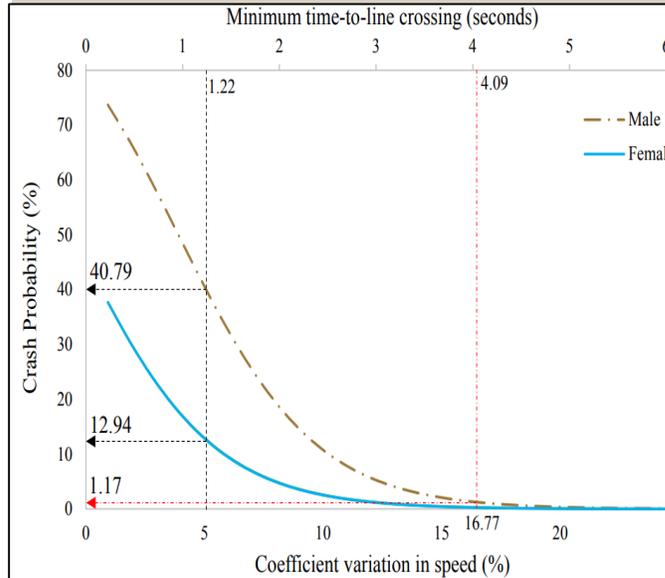
Email : nmpawar@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/52ff84a4-cb58-47d2-aaf2-1c38d1df497c>

Google Scholar ID : https://scholar.google.co.in/citations?user=l_5IPzYAAAAJ&hl=en

Scopus ID : 57212526365

Area of Research: Driver behavior modelling, accident analysis, road safety, human factors, road infrastructure design.





Name : Dr. Prateek Negi

Qualification : Ph.D., IIT Delhi

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<https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/c23c48a9-4464-43f5-b8e6-271bd1ededae>

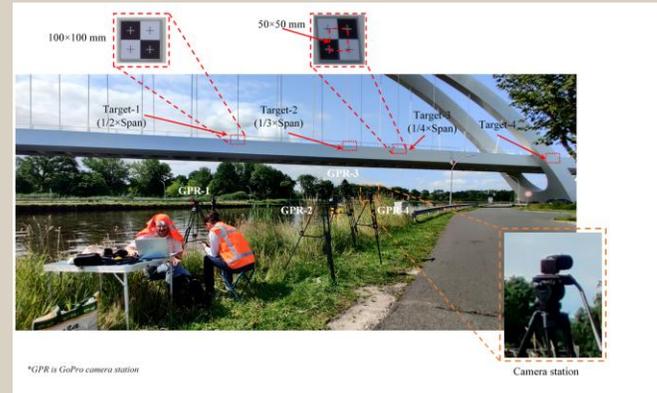
Google Scholar ID:
<https://scholar.google.co.in/citations?user=78EUJksAAAJ&hl=en>

Scopus ID: 57718315800

Orcid ID: 0000-0002-0429-4902

Area of Research:

- Structural Health monitoring, Geotechnical Instrumentation
- Condition Assessment of Civil Structures, Bridges, Tunnels, Ports, Marine and Offshore Structures
- Rock Mechanics, Landslide Susceptibility Assessment, Full Depth reclamation of Roads





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Prethiv Kumar R

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Google Scholar ID :
<https://scholar.google.com/citations?hl=en&authuser=1&user=OQOgzi0AAAAJ>

Scopus ID : 57202996985

Orcid ID : 0000-0002-7521-6063

Area of Research:

- Vibration of Offshore Structures
- Fluid Structure Interaction



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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Department: Civil Engineering



Name : Ms. Reesha Bharath K.

Qualification : Pursuing PhD

Designation :Assistant Professor

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Email :reeshabharath@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/1bddfde6-8b87-47ac-a423-93055db4f694>

Google Scholar ID :W67Y6f0AAAAJ

Scopus ID :

Orcid ID :0000-0002-8325-0720

Area of Research:

- Construction materials (Light weight concrete, Geopolymer concrete)
- Alternate building materials
- Construction management



Name: Dr. Renjitha Mary Varghese

Qualification: Ph.D., (IISc Bangalore)

Designation : Assistant Professor

Contact Number : 9496887320

Email : renjitha@nitc.ac.in :

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/5266b1d9-1fa6-4f62-bae8-a827aa6068c6>

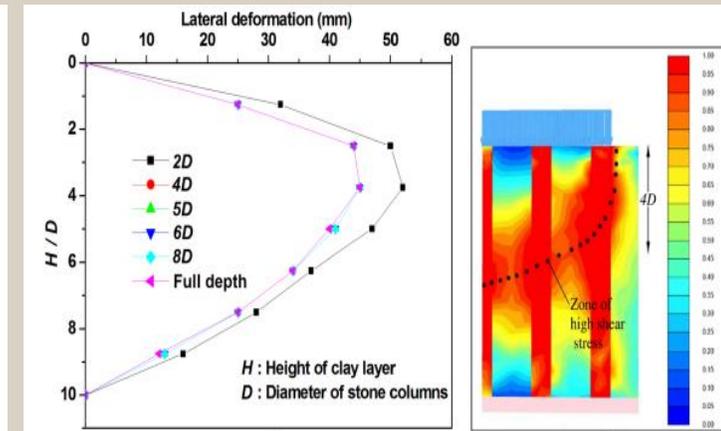
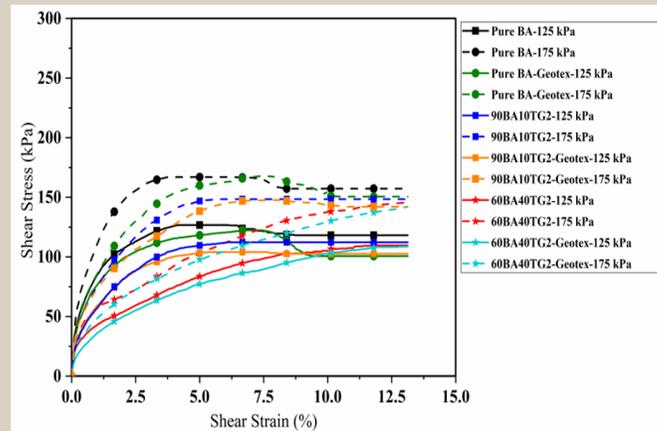
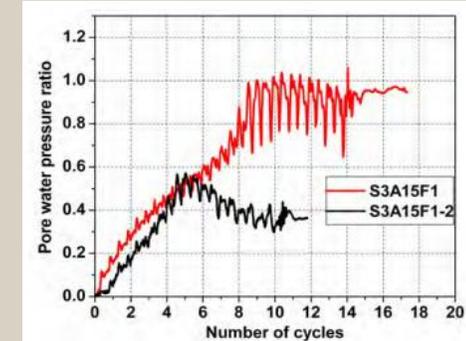
Google Scholar ID : <https://scholar.google.com/citations?user=ioetD1YAAAAJ&hl=en&oi=ao>

Scopus ID : 56072648300

Orcid ID : 0000-0002-3773-6631

Area of Research:

- Liquefaction potential of soils and its mitigation techniques; Reinforced earth retaining structures; Geotechnical seismic base isolation techniques; Landslide studies





Name: Dr. Resmi S. R.

Qualification: Ph.D., (SVNIT Surat)

Designation : Assistant Professor

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Email : resmi@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/565d9f61-5321-4b27-bbb6-a0ab213a7346>

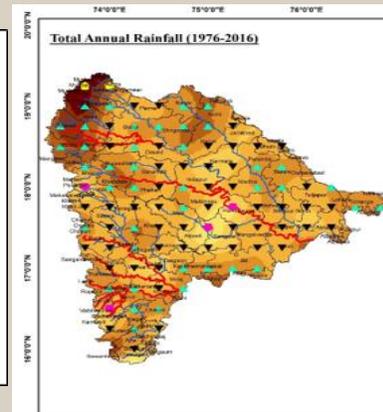
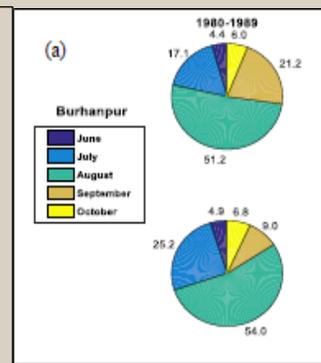
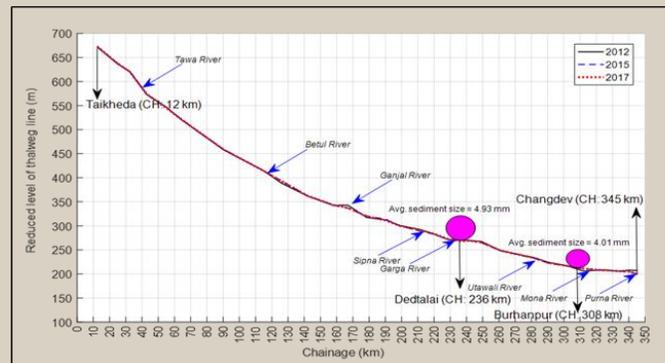
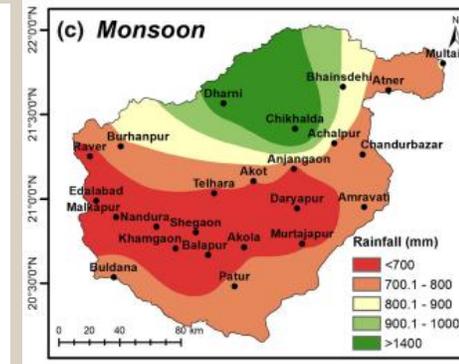
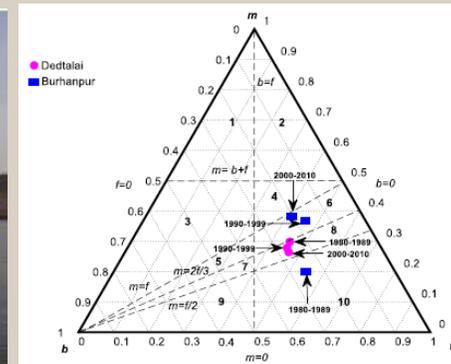
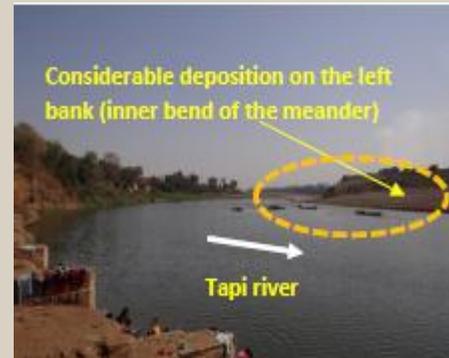
Google Scholar ID : AISOVUQAAAAJ

Scopus ID : 57200396521

Orcid ID : 0000-0003-3928-2853

Area of Research:

- Fluvial Geomorphology and sediment transport studies in rivers; Remote Sensing and GIS applications in Water Resources; Hydrological analysis; Climate Change Impact on Basin Hydrology; Flood frequency analysis



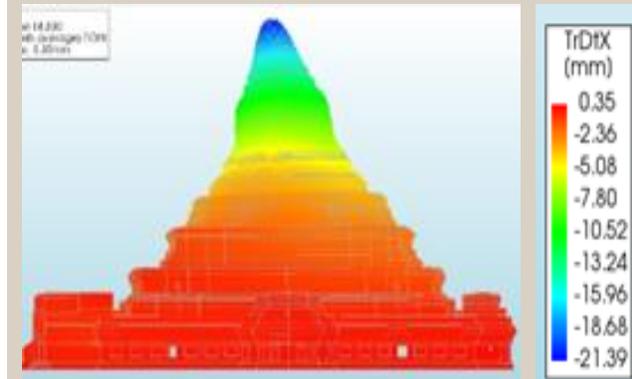
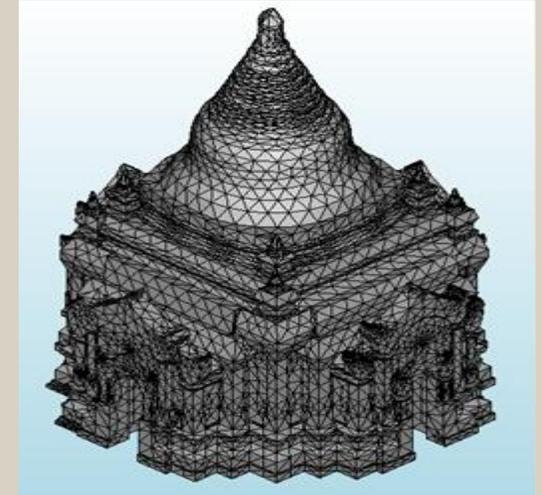
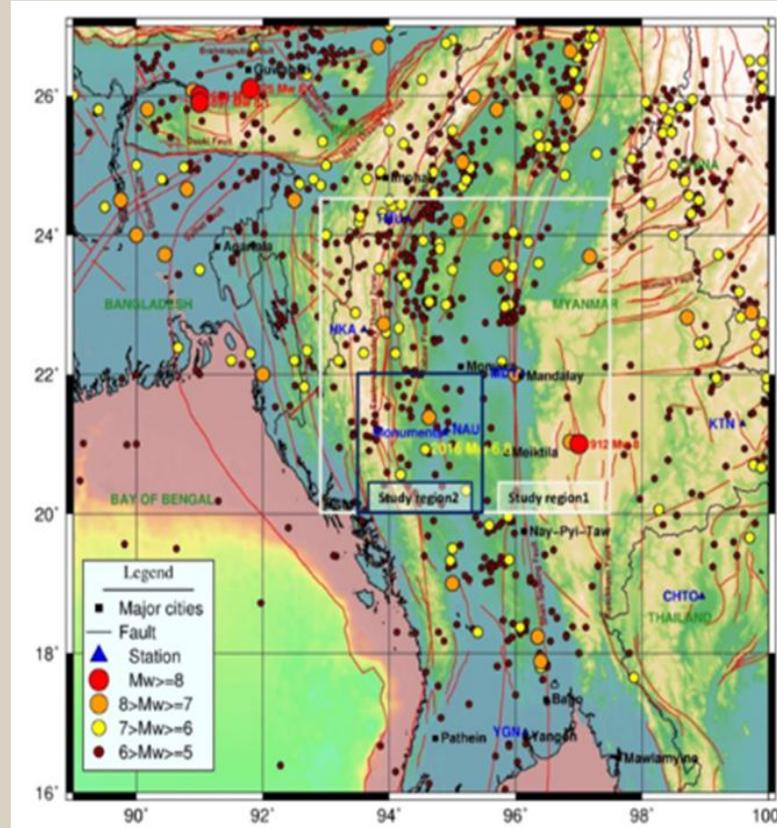


Name: Dr. Rohan Bhasker
 Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor
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 Email : rohan@nitc.ac.in
 Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/1a58f18d-8f4d-412e-a3c9-384c6528f971>
 Google Scholar ID:
<https://scholar.google.com/citations?user=qoZHM9kAAAAJ&hl=en>
 Scopus ID : 57216857032
 Orcid ID : 0000-0001-7428-8199

Area of Research:

- Earthquake Engineering, Nonlinear Structural Analysis, Risk and Reliability Analysis, Reinforced Concrete and Masonry Structures, Applied Machine Learning



Area of Research:



Name: Dr.S K Pramada

Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor

Contact Number : +91-9656006952

Email : pramada@nitc.ac.in

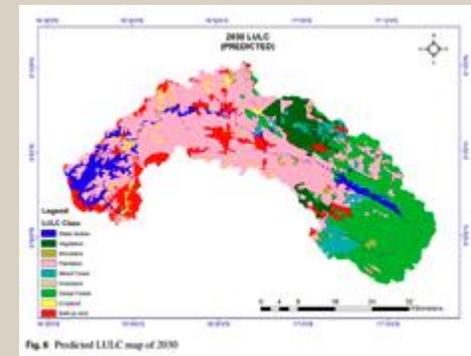
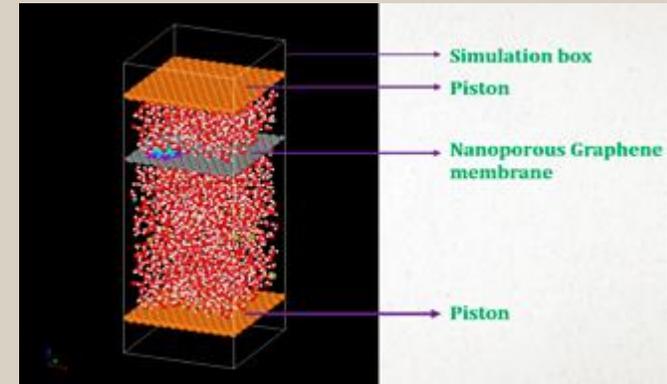
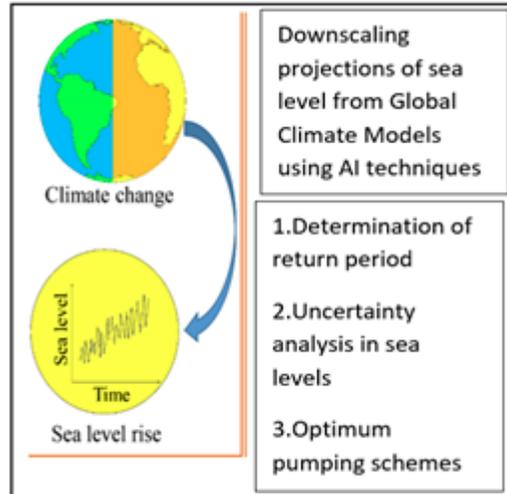
Website address : [National Institute of Technology \(nitc.ac.in\)](http://National Institute of Technology (nitc.ac.in))

Google Scholar ID:
<https://scholar.google.com/citations?user=4A7sxEUAAAAJ&hl=en>

Scopus ID : 16679862400

Orcid ID : 0000-0002-3597-3254

- (1) Optimum dewatering schemes for open cast mining and construction works
- (2) Management of coastal areas under climate change scenarios
- (3) Application of AI techniques in water resources engineering and application of Molecular Dynamics Simulation for desalination process





Name : Dr. Sanjay Singh.

Qualification : Ph.D., (IIT Bombay)

Designation : Assistant Professor

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Email : sanjaysingh@nitc.ac.in

Website address :

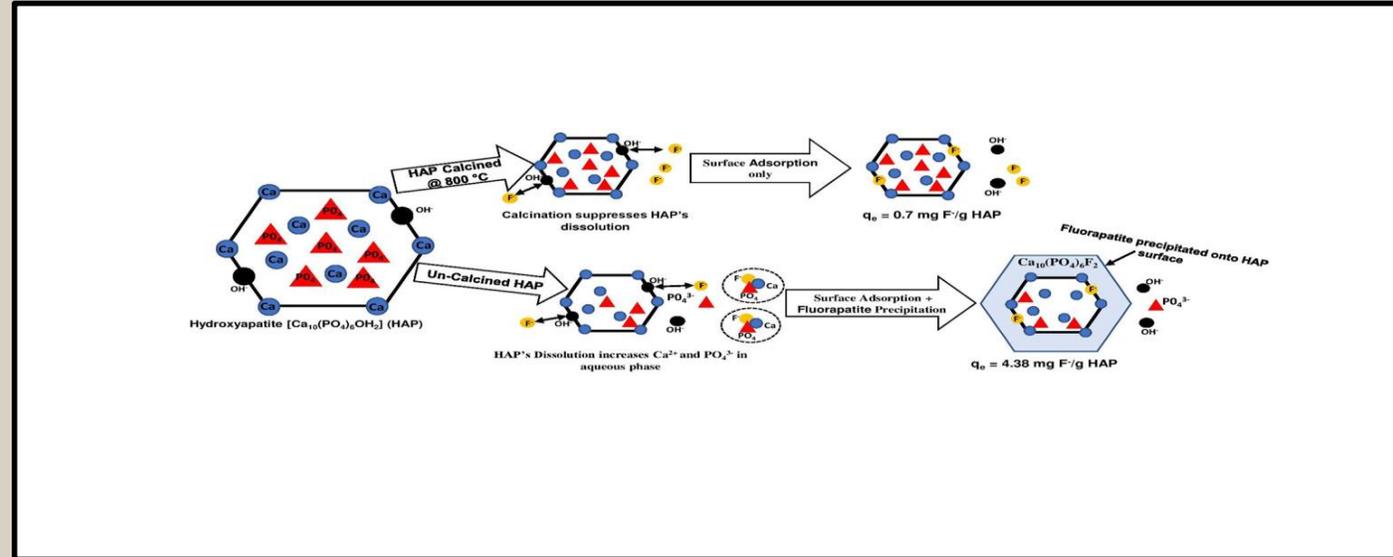
Google Scholar ID :
<https://scholar.google.com/citations?user=0zXWHglAAA&hl=en>

Scopus ID : 57215185915

Orcid ID <https://orcid.org/0000-0002-1888-097X>:

Area of Research:

- Groundwater treatment technologies. Removal of inorganic contaminants such as Fluoride, Arsenic, and Uranium.
- Wastewater treatment using hybrid Advanced Oxidation Processes





Name : Dr. Seethalakshmi P

Qualification : Ph.D., (IITGN)

Designation : Assistant Professor

Contact Number : 9442259922

Email : seetha@nitc.ac.in

Website address : [National Institute of Technology \(nitc.ac.in\)](http://National Institute of Technology (nitc.ac.in))

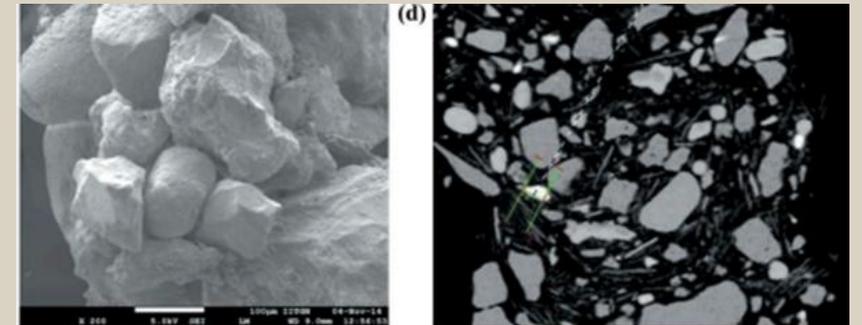
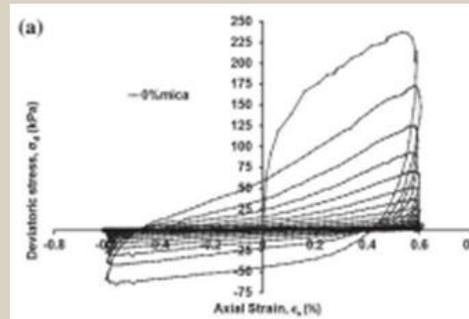
Google Scholar ID :ByfWU4wAAAJ

Scopus ID : 57201880306

Orcid ID : [0009-0006-8707-1828](https://orcid.org/0009-0006-8707-1828)

Area of Research:

- Shear strength and Dynamic behavior, Liquefaction susceptibility and cyclic instability of problematic soils
- Stress induced anisotropy of soils
- Microscopic Interparticle Interactions in Granular Materials subjected to Particle Breakage
- Influence of Salinity Ingression on shear behaviour of soft marine clay under different degree of saturation
- Performance of disconnected piled raft foundations
- Performance of Twin Tunnelling in Soft Soils





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name : Dr. Sharan Kumar Goudar

Qualification : Ph.D., (NITK, Surathkal)

Designation :Assistant Professor

Contact Number :9538566097

Email :sharan@nitc.ac.in

Google Scholar ID
<https://scholar.google.co.in/citations?user=CIHEL5IAAAJ&hl=en>

Website address :
<https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/5f729543-fb90-4ecf-b3be-3133645cd13c>

Area of Research:

- Service life prediction of RC Structures,
- corrosion studies in RC Structures,
- Structural Stability of RC Structures,
- Analysis of Steel-concrete Interface,
- Development of sustainable high-speed railway sleepers,
- High-performance concretes
- Development of sustainable green concrete



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Sudha Das Khan.

Qualification: Ph.D., (NIT Durgapur)

Designation : Assistant Professor

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Email : sudhadk@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/f6b6ff28-5ce2-49f1-a920-07173ad006c5>

Google Scholar ID : <https://scholar.google.co.in/citations?user=WZx0whoAAAAJ&hl=en>

Scopus ID :56196651100

Orcid ID :. [0000-0001-8764-4615](https://orcid.org/0000-0001-8764-4615)

Area of Research:

- Structural Health Monitoring of Reinforced Concrete Structures
- Application of Soft Computing techniques in Structural Health Monitoring
- Application of Decision Making techniques in Bridge Management System



Name: Dr. Vikas Poonia.

Qualification: Ph.D., (IIT Indore)

Designation : Assistant Professor

Contact Number : +91-8112210590

Email : vikaspooniam@nitc.ac.in

Website address : <https://nitc.ac.in/department/civil-engineering/faculty-and-staff/faculty/cc2314f2-271a-4fd8-a34b-8d090dadfc8e>

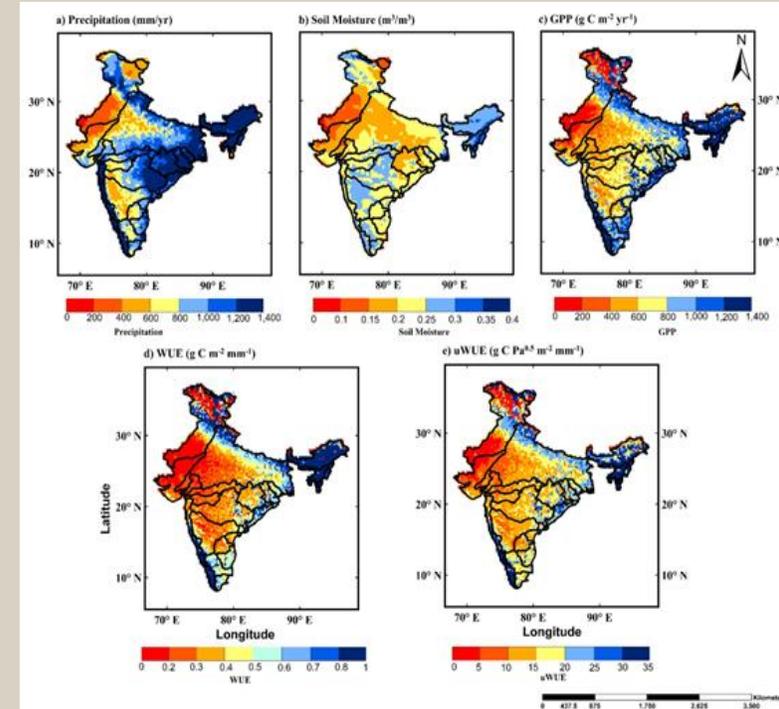
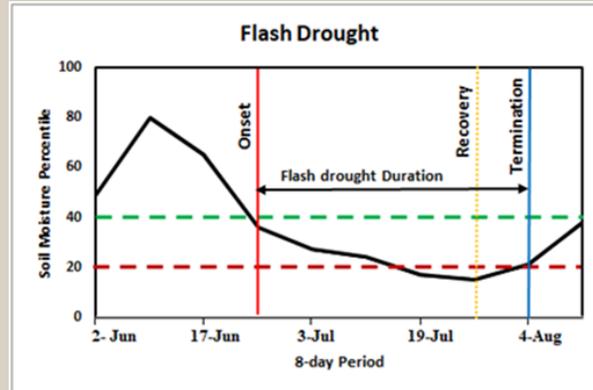
Google Scholar ID : <https://scholar.google.com/citations?user=Ede3YxgAAAJ&hl=en&oi=ao>

Scopus ID : 56126279900

Orcid ID : 0000-0001-5819-3747

Area of Research:

1. Drought monitoring
2. Flash drought and forecasting
3. Climate change impact assessment
4. Crop modelling
5. Climate-vegetation interactions





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Civil Engineering



Name: Dr. Yogeshwar V. Navandar

Qualification: Ph.D., (SVNIT, Surat)

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Google Scholar ID :
<https://scholar.google.co.in/citations?user=K4ONQJQAAA&hl=en>

Scopus ID :

ORCID ID

Area of Research:

- Traffic Engineering, Road Safety, Infrastructure Management, Port Management, Virtual Reality, Transportation Economics

Faculty Profile:



Name: **Dr. Chandru P**

Qualification: Ph.D.

Designation : Assistant Professor

Contact Number : 8870211979

Email : chandru@nitc.ac.in

Website address : [Link](#)

Google Scholar ID : [Link](#)

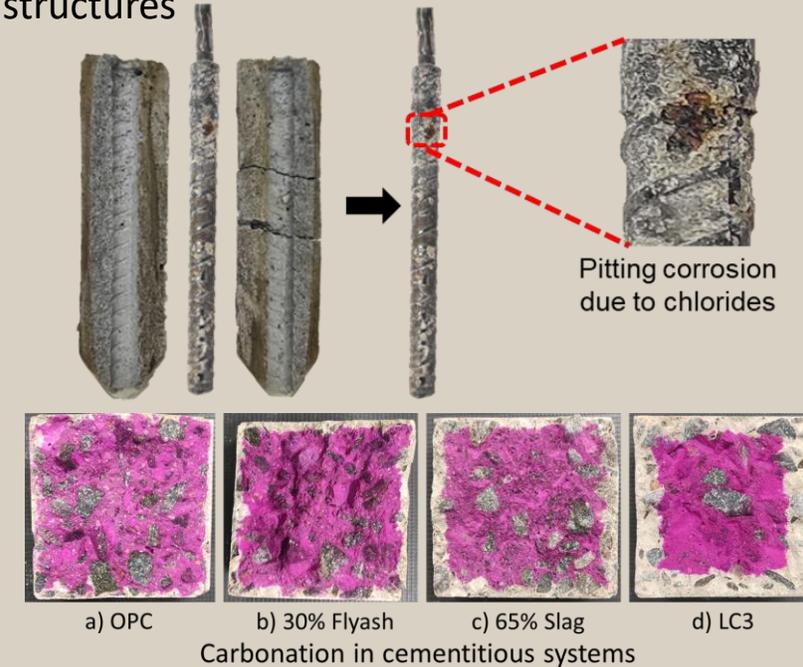
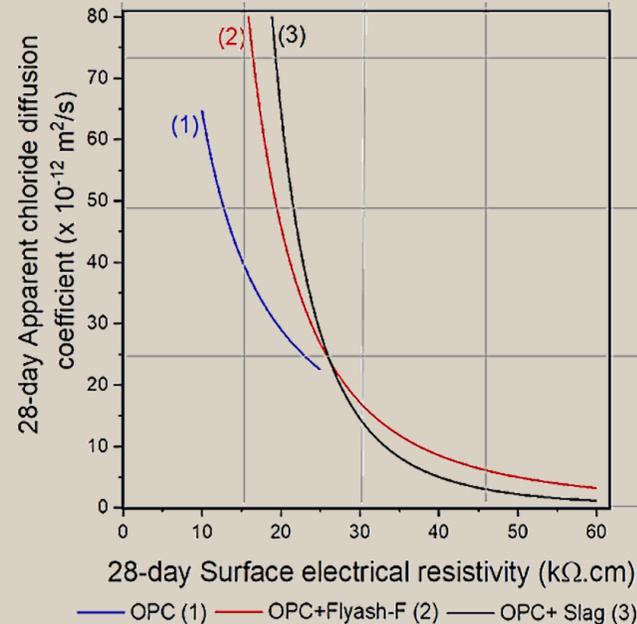
Scopus ID : [Link](#)

Orcid ID : [Link](#)

[CHANDRU P - Google Scholar](#)

Area of Research:

- Sustainable concreting materials and Low carbon cements
- Special concretes, Nano additives and Corrosion Inhibitors
- Cementitious grouts for Post-Tensioning applications
- Corrosion in metallic reinforcements (Chloride & Carbonation)
- Durability and Service life design of RCC structures





Name : Dr. Abhishek N Srivastava

Qualification : PhD

Designation : Assistant Professor

Contact Number : 8076350156

Email : abhishekns@nitc.ac.in

Website address : [Visit here](#)

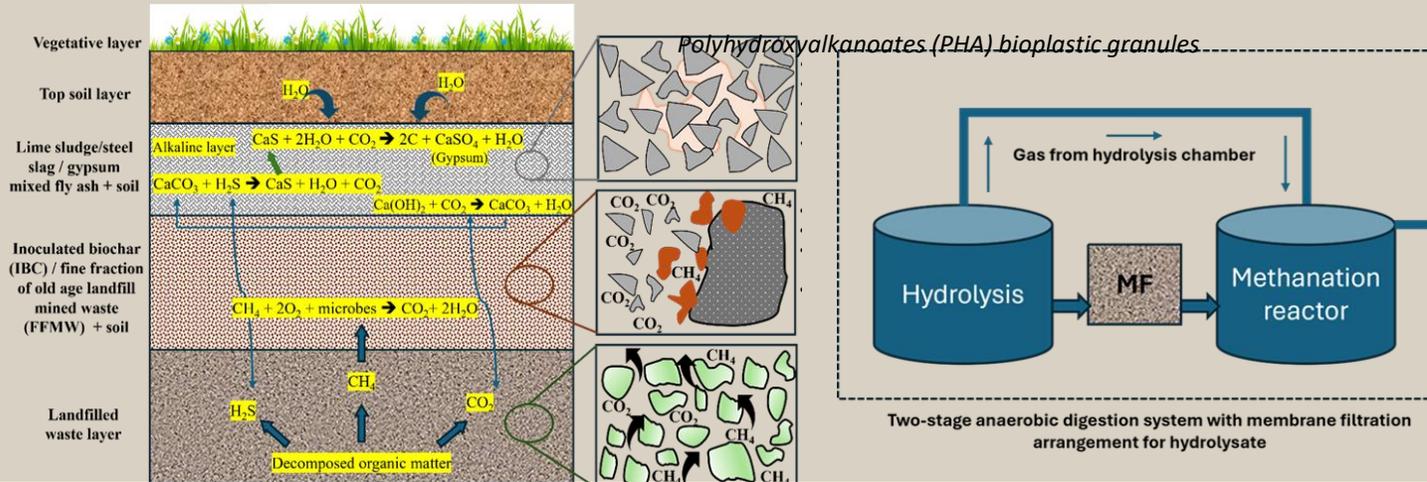
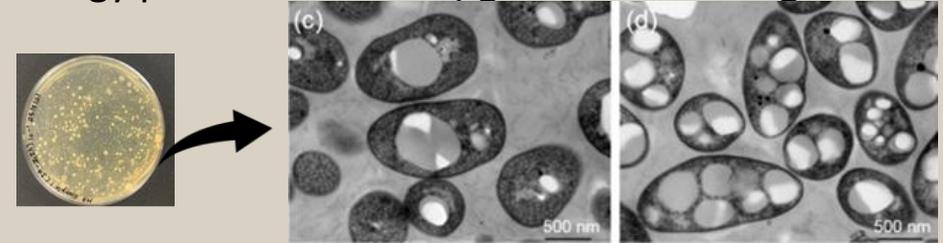
Google Scholar ID: [Visit here](#)

Scopus ID : [57216612606](#)

Orcid ID : [0000-0002-2995-0320](#)

Area of Research:

- Bioprocessing of solid waste for biomaterials & bioenergy production.
- Development of sustainable biomaterials - bioplastics, biofertilizers.
- Solid waste management - landfill engineering, bioreactor landfills.
- Waste to energy production and upgradation into high-value fuels.





Name : Dr. Anil Sagar S

Qualification : Ph.D

Designation : Assistant Professor

Contact Number : 9741785597

Email : anilsagar@nitc.ac.in

Website address : [Link](#)

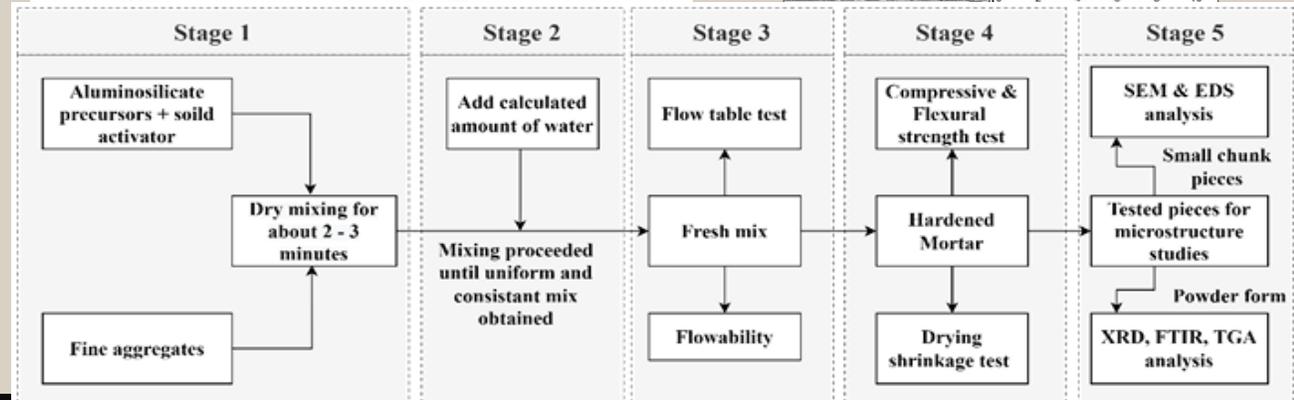
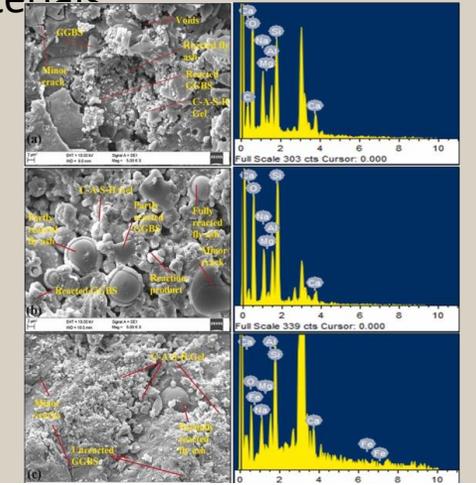
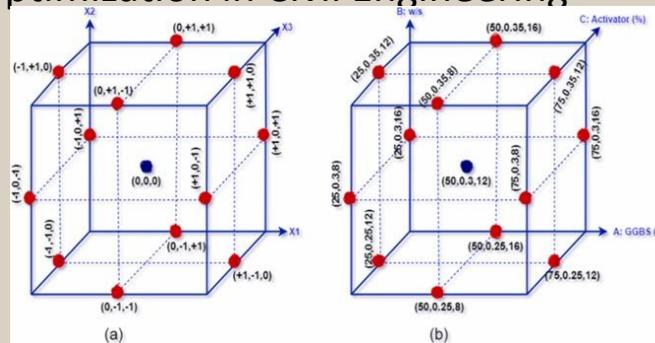
Google Scholar ID: [Link](#)

Scopus ID : 58113397600

Orcid ID : 0000-0003-3102-4112

Area of Research:

- Durability of concrete structures
- Sustainable construction and building materials
- One-part geopolymers
- Optimization in Civil Engineering





Name : Dr. Punith Raj G

Qualification : Ph.D.

Designation : Assistant Professor

Contact Number : +91-9740309708

Email : punithrajg@nitc.ac.in

Website address : [Link](#)

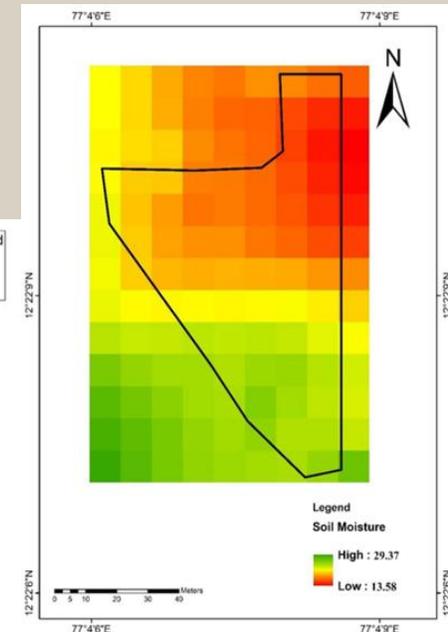
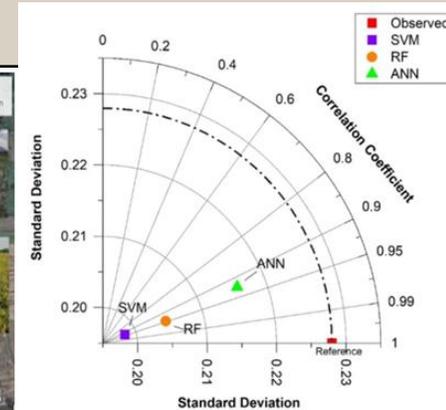
Google Scholar ID : [Link](#)

Scopus ID : 57214089414

Orcid ID : [0000-0003-0422-2949](#)

Area of Research:

- Hydrological Modelling and field studies.
- RADAR Remote Sensing in agriculture and urban studies.
- Polarimetric SAR Interferometry.
- Climate change impact assessment in hydrology





Name : Dr. Anjali Balan. L

Qualification : Ph.D.

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Email : anjalibalan@nitc.ac.in

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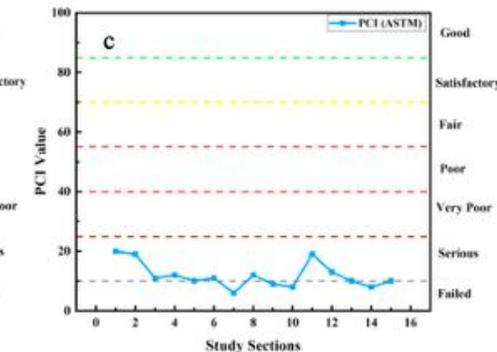
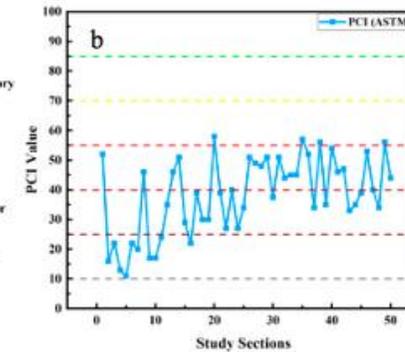
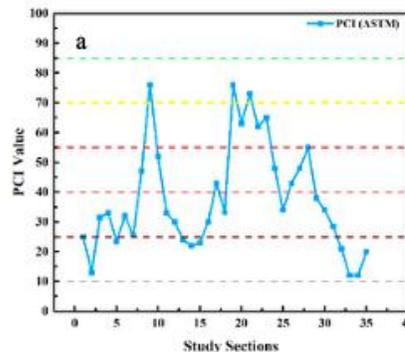
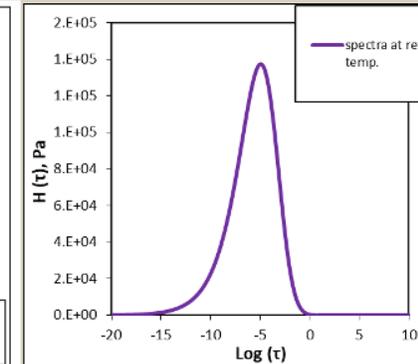
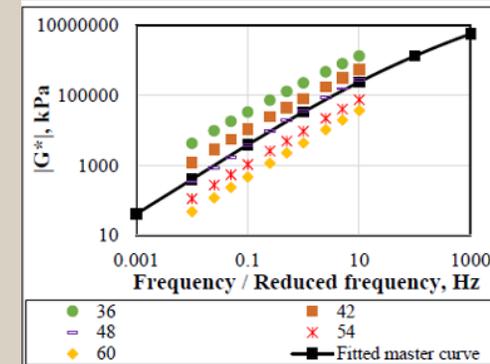
Google Scholar ID: [Link](#)

Scopus ID : 57503052900

Orcid ID : 0000-0001-8884-4133

Area of Research:

- Pavement Materials
- Sustainable pavements
- Chemical and rheological characterization of bitumen
- Bio-binders
- Pavement Evaluation





Name : **Dr. Ranjith K.**

Qualification : **Ph.D.**

Designation : Assistant Professor (Gr II)

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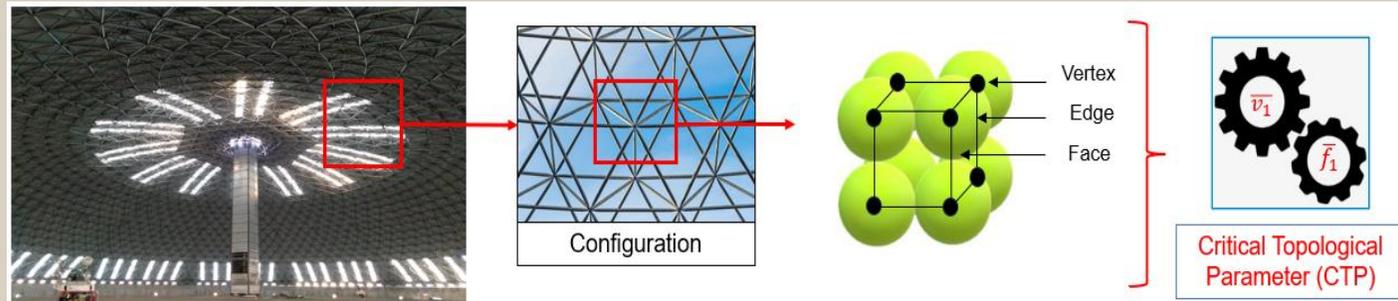
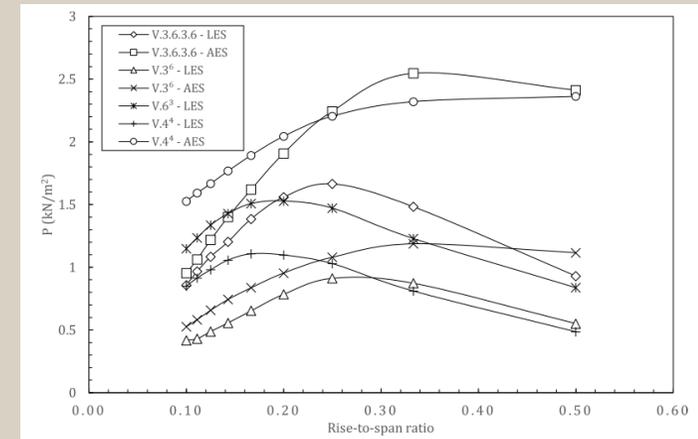
Google Scholar ID: ONaSeQkAAAAJ

Scopus ID : 57674122800

Orcid ID : 0000-0002-8702-0682

Area of Research:

- Spatial Structures
- Structural Stability
- Progressive Collapse
- Configuration Processing
- Form Finding & Shape Optimization
- Structural Fire Engineering





Name : **Dr. Ganta Shanmukha Rao**

Qualification : **Ph.D.**

Designation : Assistant Professor, Grade-II

Contact Number : 9121923201

Email : shanmukha@nitc.ac.in

Website address : [Link](#)

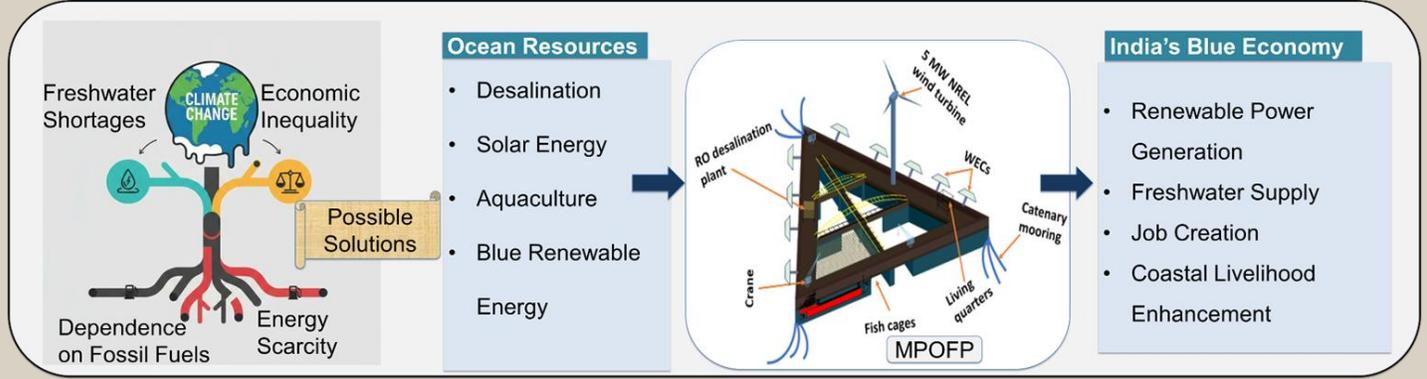
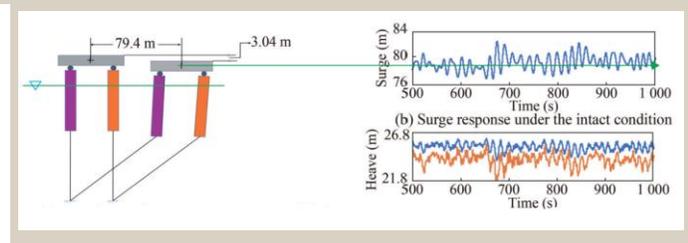
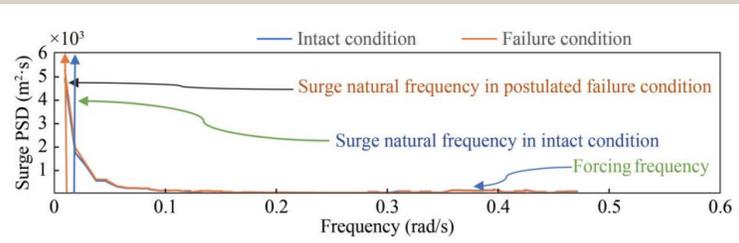
Google Scholar ID: [Link](#)

Scopus ID :58694324300

Orcid ID :0000-0002-1527-347X

Area of Research:

- ❖ Offshore structures
- ❖ Coastal structures
- ❖ Wave structure interaction
- ❖ Blue renewable energy (WECs, FOWTs, OTEC)
- ❖ Sustainable construction in the marine environment
- ❖ Fatigue life assessment of the structural members
- ❖ Dynamics of offshore structures





Name : Aniket Sanjay Desai

Qualification : Ph.D.

Designation : Assistant Professor

Contact Number : 8791414802

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Website address : [Link](#)

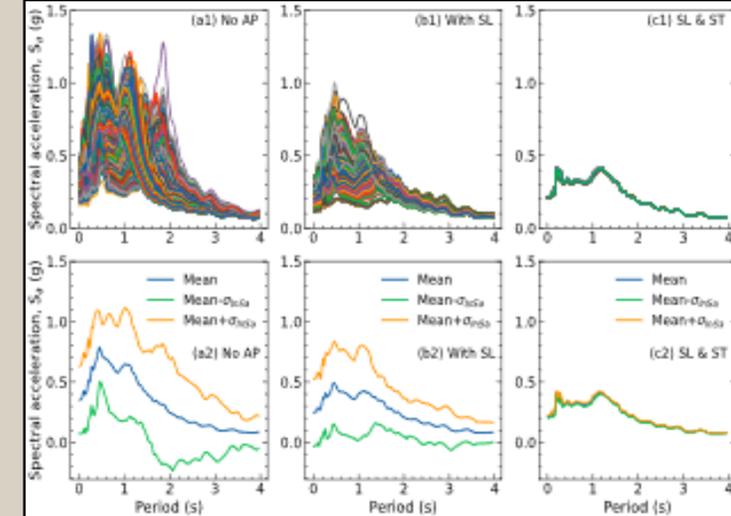
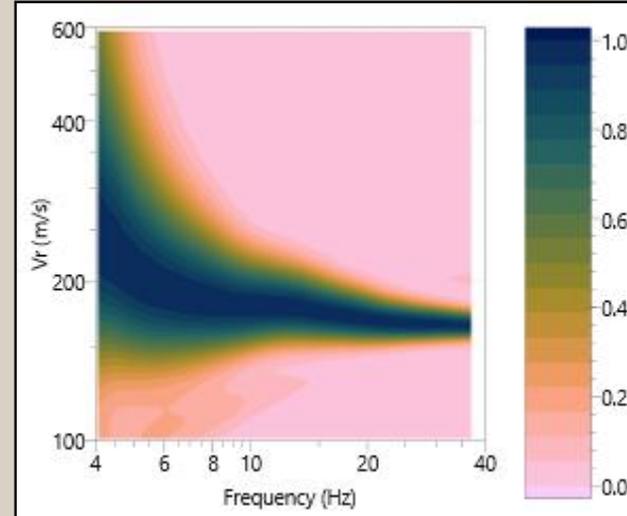
Google Scholar ID: [Link](#)

Scopus ID : 57220402872

Orcid ID : 0000-0002-2857-0078

Area of Research:

- Seismic site characterization
- Subsurface imaging using active and passive surface methods
- Seismic site response analysis
- Local site effects





Name : Dr. Vineesh P

Qualification : PhD

Designation : Assistant Professor (Grade II)

Contact Number : 9562009319

Email : vineeshp@nitc.ac.in

Website address : [Link](#)

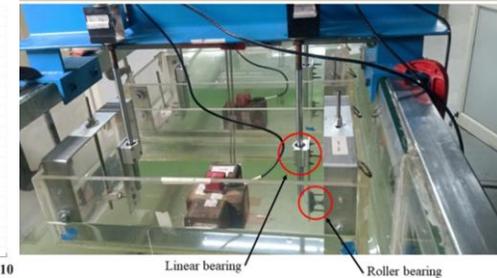
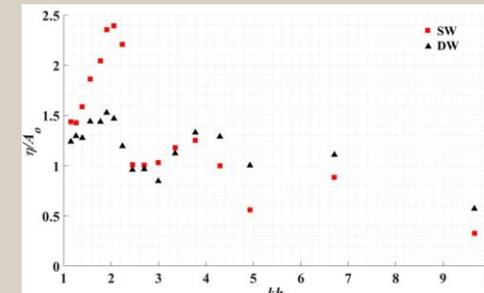
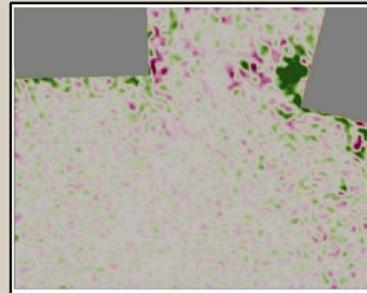
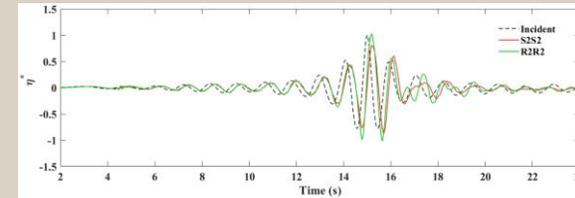
Google Scholar ID: [Link](#)

Scopus ID : 57224305399

Orcid ID : 0009-0006-9479-1983

Area of Research:

- Laboratory model test involving Particle Image Velocity (PIV) and numerical investigation employing an in-house CFD code to understand the hydrodynamics of side-by-side LNG offloading
- Application of soft engineering solutions, including artificial reefs and mangrove-like vegetation, for coastal protection
- Dynamics of Floating Bodies
- Wave - Structure Interaction





Name : Dr. Seelam Naga Poojitha

Qualification : Ph.D.

Designation : Assistant Professor

Contact Number : +917981869859

Email : snpoojitha@nitc.ac.in

Website address : [View the Site](#)

Google Scholar ID: [View the Site](#)

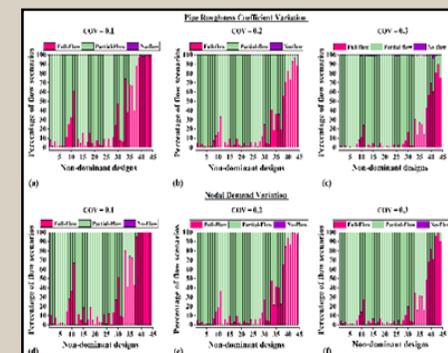
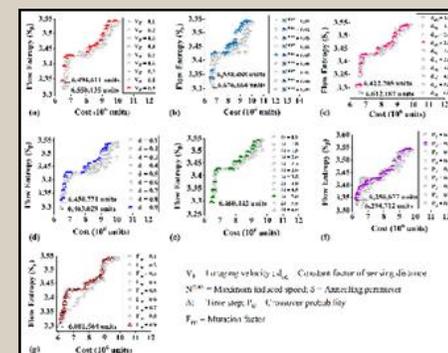
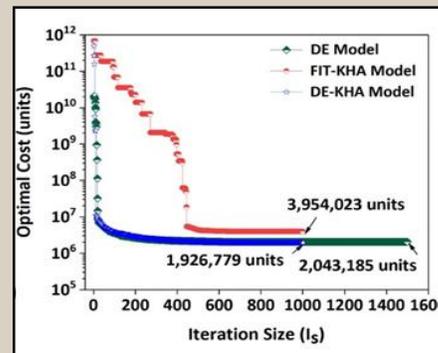
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Orcid ID : 0000-0003-2721-9224

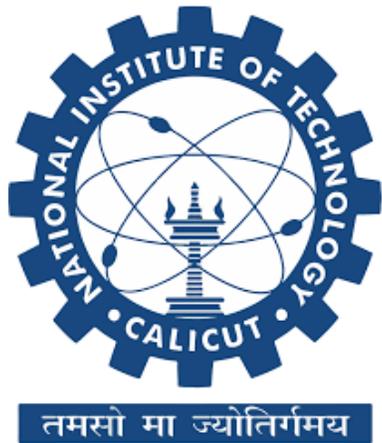
Area of Research:

- Water resources engineering optimization studies
- Reliability-based design of WDNs
- Life cycle cost analysis
- Performance study
- Metaheuristic techniques
- Chaos theory in optimization

Dr. S. N. Poojitha's primary research focuses on water sustainability, with an emphasis on reliable and economical design of water distribution networks. Her current work involves developing a design framework for dynamic district metered areas to support localized control and enable the optimal and reliable conversion of intermittent water supply systems to continuous (24 × 7) operation.



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
**Department of Computer Science and
Engineering**

LIST OF FACULTY

- [Dr. Abdul Nazeer K. A](#)
- [Dr. Priya Chandran](#)
- [Dr. S. D. Madhu Kumar](#)
- [Dr. Vineeth Paleri](#)
- [Dr. Gopakumar G](#)
- [Dr. Saidalavi Kalady](#)
- [Dr. Saleena N.](#)
- [Dr. Jimmy Jose](#)
- [Dr. Muralikrishnan K.](#)
- [Dr. Vinod Pathari](#)
- [Dr. Subhasree M](#)
- [Dr. Subashini R](#)
- [Dr. A. Sudarshan Chakravarthy](#)
- [Dr. Amit Praseed](#)
- [Dr. Anu Mary Chacko](#)
- [Dr. Arun Raj Kumar P.](#)
- [Dr. Anand Babu. N. B](#)
- [Dr. Anil Pinapati](#)
- [Dr. Jayaraj P. B](#)
- [Dr. Joe Cheri Ross](#)
- [Dr. Hiran V. Nath](#)
- [Dr. Jay Prakash](#)
- [Dr. Pournami P. N.](#)
- [Dr. Prabu Mohandas](#)
- [Dr. Lijiya A](#)
- [Dr. Manjusha K.](#)
- [Dr. Renjith P](#)
- [Dr. S. Sheerazuddin](#)
- [Dr. Pranesh Das](#)
- [Dr. Raju Hazari](#)
- [Dr. Venkatarami Reddy Chintapalli](#)
- [Mr. Sreenu Naik Bhukya](#)
- [Dr. T. Veni](#)
- [Dr. Vasudevan A. R.](#)
- [Mr. Sumesh T. A](#)
- [Dr. Nirmal Kumar Boran](#)
- [Mr. Srinivasa T. M](#)



LIST OF FACULTY

- [Dr.Chandramani Chaudhary](#)
- [Dr. Santosh Kumar Behera](#)
- [Dr. Muneeswaran P](#)
- [Dr. Ashwin Jacob](#)
- [Dr. Shweta](#)
- [Dr. Vidhya Kamakshi](#)
- [Dr. B Umamaheswara Sharma](#)





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Designation : Professor

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ID Scopus ID : 36806639500

Orcid ID : 0000-0002-0527-9026

Area of Research:

Bioinformatics, Data Science

Artificial Intelligence, Health Informatics



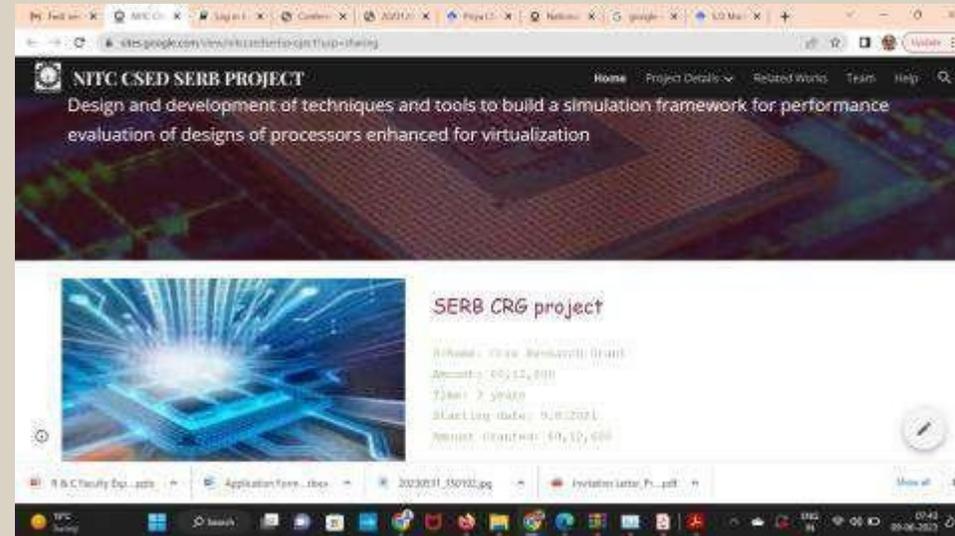
Name: Dr. Priya Chandran

Qualification: Ph.D., (IISc Bangalore)

Designation : Professor
 Contact Number : 91 9895999306
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 Website address : <https://people.cse.nitc.ac.in/priya/>
 Google Scholar ID : 1686276427036
 Scopus ID : 23395749400
 Orcid ID : 0000-0003-1822-9447

Area of Research:

- Computer Architecture, Information Security, Formal Methods
 - Security in Virtualization, Automatic Generation of Architectural Simulators
 - 33 years of academic and Research Experience at NIT Calicut
- * Ongoing Project page:





Name : Dr. S D Madhu Kumar

Qualification : Ph.D., (IIT Bombay)

Designation : Professor

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Website address : <https://people.cse.nitc.ac.in/madhu>

Google Scholar ID :

Scopus ID : [18233852400](https://scopus.com/authid/detail.uri?https://orcid.org/0000-0002-5276-8842)

Orcid ID : [_orcid.org/0000-0002-5276-8842](https://orcid.org/0000-0002-5276-8842)

Area of Research:

- Cloud Computing, Big Data Analytics, Cyber Security
- 32 years of academic and Research Experience at NIT Calicut



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department : Computer Science and Engineering



Name : Dr. Vineeth Paleri

Qualification : Ph.D., (IISc Bangalore)

Designation : Professor

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Website address :

<https://people.cse.nitc.ac.in/vpaleri/>

Google Scholar ID :

<https://scholar.google.com/citations?user=u9aQjM8AAAAJ&hl=en>

Scopus ID :

Orcid ID : 0000-0002-3394-1558

Area of Research:

Programming, Programming Languages, Compilers



Name : Dr. Gopakumar G

Qualification : Ph.D., (University of Kerala)

Designation : Associate Professor

Contact Number : 9446032724

Email : gopakumarg@nitc.ac.in

Website address :
<https://people.cse.nitc.ac.in/gopakumar/> Google

Scholar ID : gFTX6toAAAAJ

Scopus ID :

Orcid ID :

Area of Research:

- Computational Biology, AI/Machine Learning, Computational Drug Discovery, Biological Network Analysis



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department : Computer Science and Engineering



Name : Dr. Saidalavi Kalady
Qualification : Ph.D.,(NIT Calicut)

Designation : Associate Professor
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Website address : <https://people.cse.nitc.ac.in/saidalavi/>
Google Scholar ID :
IXgE7V4AAAAJ&hl=en
Scopus ID : 25723260000
Orcid ID : 0000-0002-0923-4765

Area of Research:

Computer Architecture and Computational intelligence

[Back](#)



Name : Dr. Saleena N

Qualification : Ph.D., (NIT Calicut)

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Contact Number : 91 495 228 6807 / 9995335860

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Google Scholar ID :

Scopus ID : 35753617700

Orcid ID : 0000-0002-2449-7758

Area of Research:

Compilers, Programming Languages



Name : Dr. Jimmy Jose

Qualification : Ph.D., (IIT Kharagpur)

Designation : Associate Professor

Contact Number : 91 495 228 6812 / 9495872548

Email : jimmy@nitc.ac.in

Website address :
<https://people.cse.nitc.ac.in/jimmy>

Google Scholar ID : tqxzB5IAAAAJ

Scopus ID : 56425215400

Orcid ID : 0000-0001-7074-090X

Area of Research:

Cryptography and Security

- Stream Ciphers, Cellular Automata, Hardware Security



Area of Research:



Name: Dr. Muralikrishnan K.

Qualification: Ph.D., (IISc Bangalore)

Designation : Professor

Contact : 91 495 228 6805 / 9188868251

Number Email : kmurali@nitc.ac.in

Website address :

Google Scholar ID : <https://scholar.google.com/citations?user=4zqDLhIAAAJ&hl=en>

Scopus :

ID Orcid :

ID IRINS : <https://nitc.irins.org/profile/53759>

DBLP : <https://dblp.org/pid/17/6771.html>

- Algorithms, graph theory, complexity and coding theory.
- compilers, operating systems and database systems.

Educational Programming Projects for undergraduates:

1. eXpOS *Operating System* Coding Project: <https://exposnitc.github.io/>
2. eXpL *Compiler* Coding Project: <https://silcnitc.github.io/>
3. NITCBase *RDBMS* Coding Project: <https://nitcbase.github.io/>



Name : Dr. Vinod Pathari
Qualification: Ph.D., IIT Bombay

Designation : Associate Professor
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Website address : <https://tinyurl.com/pvinod>
Google Scholar ID : t74GmO8AAAAJ
Scopus ID : 16176247800
Orcid ID : 0000-0002-2601-5265

Area of Research:

- Information Security Management
- Authentication schemes in the IoT environment



Name : Dr. Subhasree M

Qualification : Ph.D., (IIT Madras)

Designation : Associate Professor

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Website address :
<https://people.cse.nitc.ac.in/subha/>

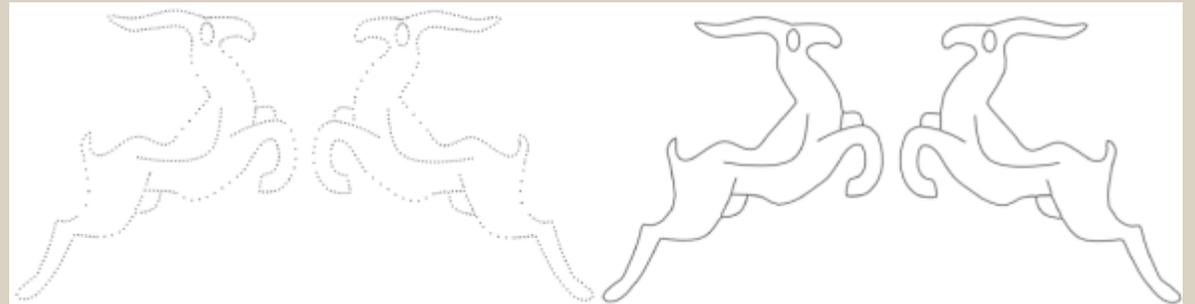
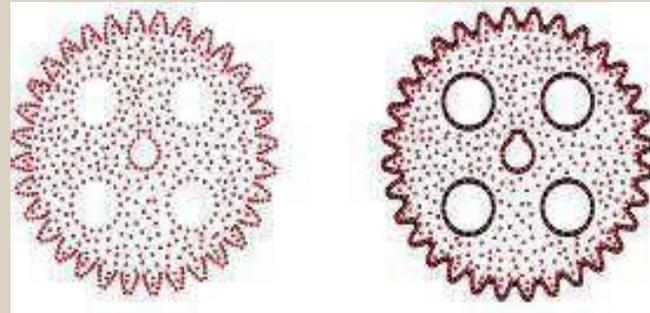
Google Scholar ID : zozwQ00AAAAJ

Scopus ID : 56708730000

Orcid ID : 0000-0003-1476-2594

Area of Research:

- Computational Geometry
- Data Structures and Algorithms





Name : Dr. Subashini R

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Designation : Associate Professor

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Email : suba@nitc.ac.in

Website address :
<https://subanitc.github.io/subashini/>

Google Scholar ID : TDKCxSIAAAAJ

Scopus ID : 56938553500

Orcid ID : 0000-0002-9724-3484

Area of Research:

- Design and Analysis of Classical Algorithms for real-time Graph problems
- Design and Analysis of Parameterized Algorithms for NP-Hard Graph problems
- Classical and Parameterized Complexity Theory
- Data Structures and Graph Algorithms



Name : Dr. A Sudarshan Chakravarthy

Qualification : Ph.D., (NIT Warangal)

Designation : Assistant Professor

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Website address :
<https://people.cse.nitc.ac.in/sudarshanch>

Google Scholar ID : Aq7wZdwAAAAJ

Scopus ID : 57208644143

Orcid ID : 0000-0001-7035-8225

Area of Research:

- Cloud Computing
- Edge Computing
- Unmanned Aerial Vehicle Networks
- Vehicular Computing
- Energy Efficiency

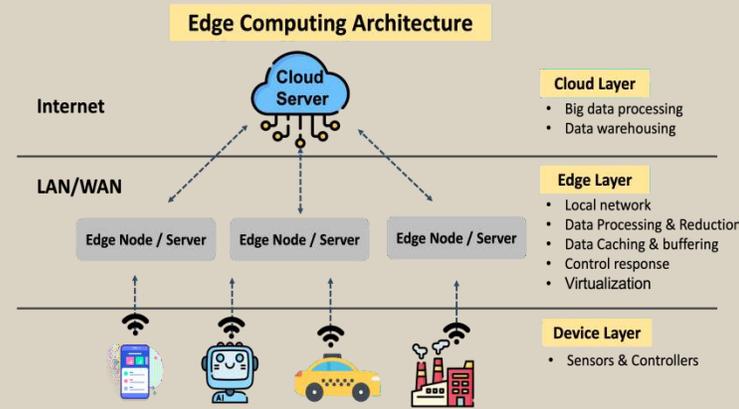
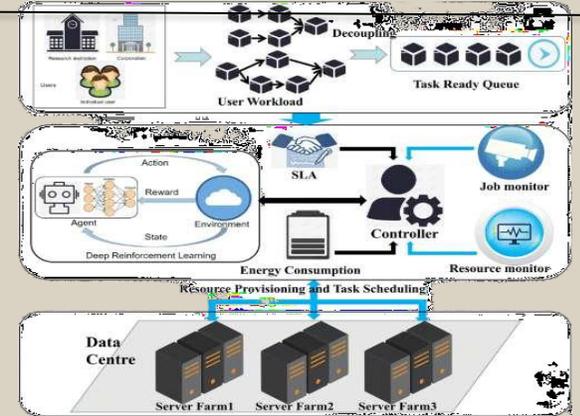
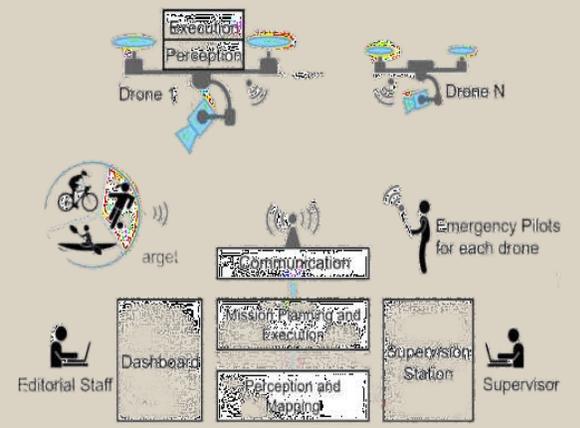


Figure : Edge computing architecture overview
 Source : The research team





Name: Dr. Amit Praseed

Qualification: Ph.D. (NITK Surathkal)

Designation : Assistant Professor (Grade II)

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Website address : <https://people.cse.nitc.ac.in/amitpraseed>

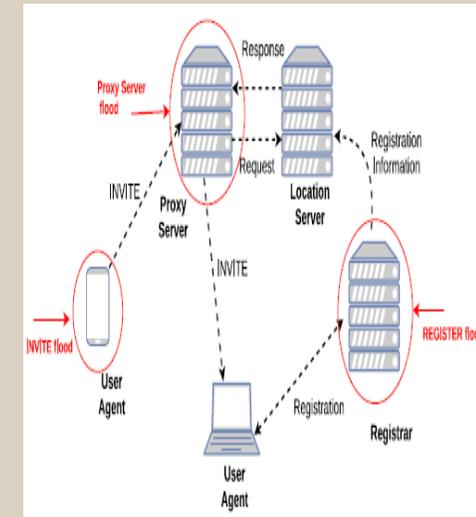
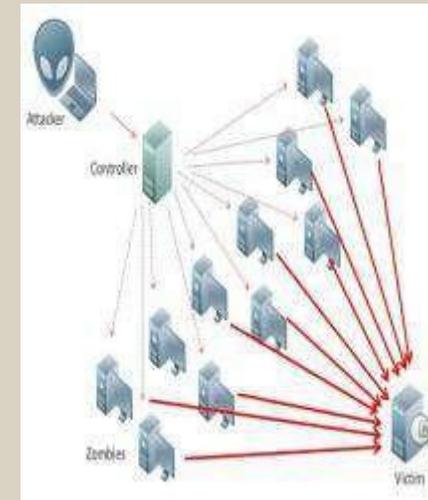
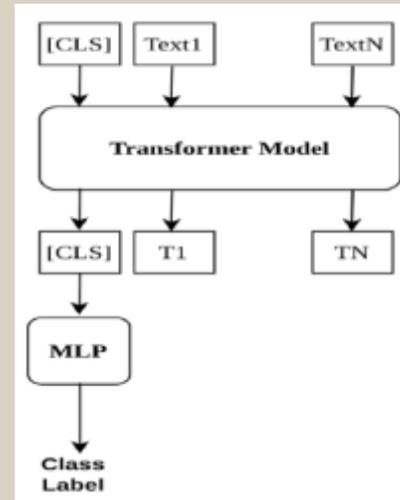
Google Scholar : Ev1dvKYAAAAJ

ID Scopus ID : 57190304797

Orcid ID : 0000-0003-3965-0118

Area of Research:

- Modelling of user/system behavior for describing and detecting attacks against web applications
- Applications of data science and AI techniques for tackling security issues such as fake news detection and detection of machine generated text or code





Name: Dr. Anu Mary Chacko

Qualification: Ph.D., (NIT Calicut)

Designation : Assistant Professor (Grade I)

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Website address :
<https://people.cse.nitc.ac.in/achacko>

Google Scholar ID : Anu Mary Chacko

Scopus ID : [56040154900](https://scopus.com/authorid/56040154900)

Orcid ID : <https://orcid.org/0000-0001-7830-8679>

Area of Research:

- Health Informatics with focus on EHR data Analytics
- Assistive Technology development for Intellectually Disabled.
- Fake Profiles in Online Social Networks



Name : Dr. Arun Raj Kumar P.

Qualification : Ph.D., (NIT
Tiruchirappalli)

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Website address : <https://www.nitc.ac.in>

Google Scholar ID : by5zZUYAAAAJ

Scopus ID : 57193792435

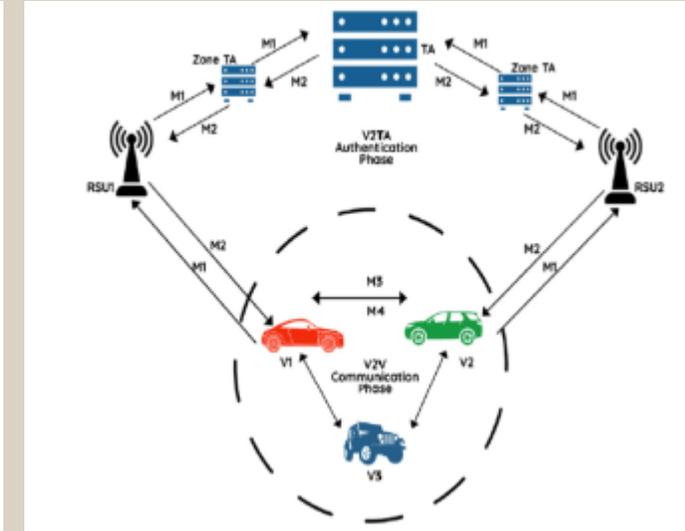
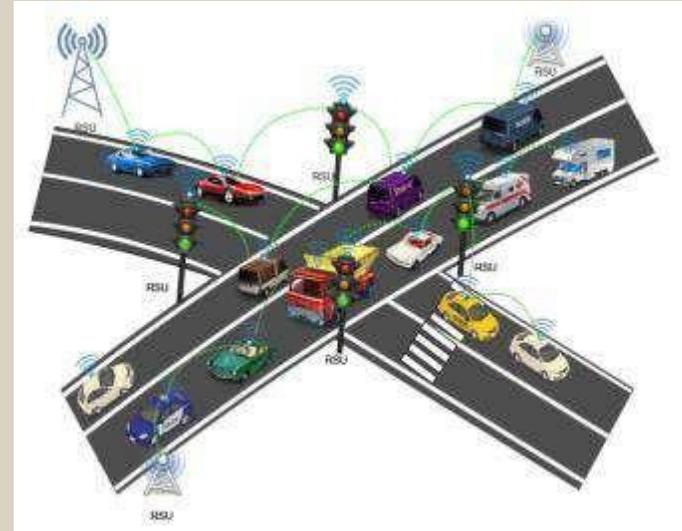
ID Orcid : 0000-0001-9052-2002

ID

ID

Area of Research:

- Computer Networks (VANET, UAVNET, etc.)
- Network Security
- Malware Analysis





Name: Dr. Anand Babu.N.B

Qualification: Ph.D., (IIT Bombay)

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Website address :
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Google Scholar ID :
<https://scholar.google.de/citations?user=3PHhwFwAAAJ&hl=en>

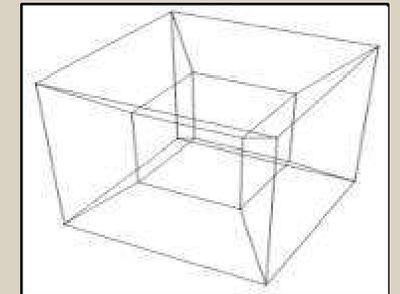
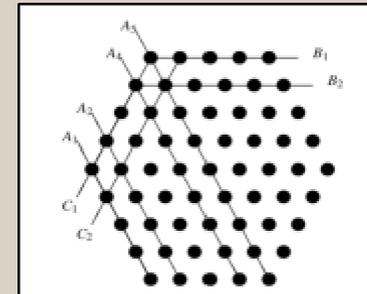
Scopus : 57274137700

Orcid ID : <https://orcid.org/0000-0002-9904-0488>

Area of Research:

- Combinatorics.
- Probabilistic problems on graphs and hypergraphs.
- Graph Theory & Algorithms their applications to Theoretical Computer Science.

$$X_{i+1} = X_i + \sum_{ij} \frac{1 a_i b_j}{2 X_i n+1} (b_j - b_i) + \frac{1 a_i b_j}{2 X_i n+1} (a_j - a_i)$$





Name : Dr. Anil Pinapati
Qualification : Ph.D., (NIT
Warangal)

Designation : Assistant Professor

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Google Scholar ID :

Scopus ID :

Orcid ID : 0000-0001-7767-989X

Area of Research:

- Information Security and Cryptography
 - Improving the efficiency of scalar multiplication in ECC
 - Digital signatures with Bilinear pairings



Name : Dr. Jayaraj P B

Qualification : Ph.D., (NIT
Calicut)

Designation : Associate Professor

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<https://scholar.google.co.in/citations?user=SPj98gcAAAAJ&hl=en>

Scopus ID : [57196066549](https://www.scopus.com/authid/detail.url?authorId=57196066549)

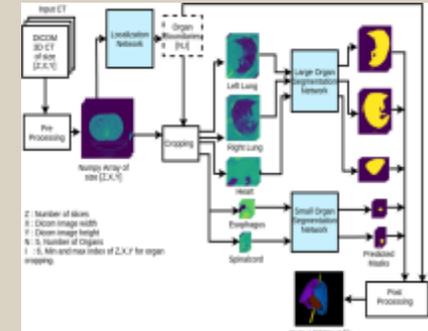
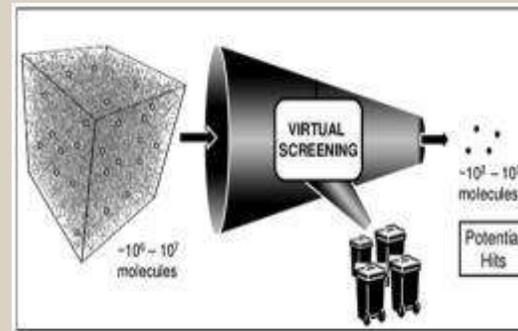
Orcid ID : <https://orcid.org/0000-0002-9924-9046>

Area of Research:

Artificial Intelligence, Machine learning, Deep learning, Computer Vision, AI in HealthCare

Applying engineering solutions for healthcare applications

- Developed a biomedical device for Primary Screening Cervical Cancer
- Constructed an Autocontrolling Station for helping in Radiotherapy
- Created tools for helping in Virtual Screening in Computational Drug Discovery





Name : Dr. Joe Cheri Ross

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address : <https://scholar.google.com/citations?user=fEaMrF0AAAAJ&hl=en>

Google Scholar ID

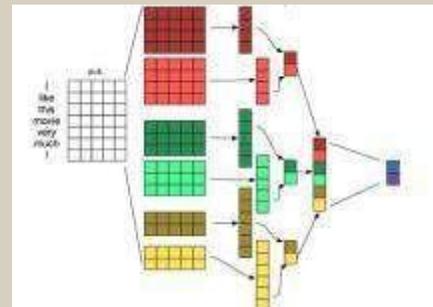
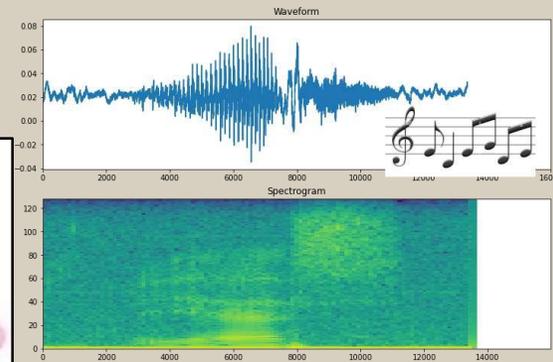
:
 : <https://orcid.org/0000-0001-0050-0000>

Scopus ID : 0050-0000

Area of Research:

Music Information Retrieval (MIR), Natural Language Processing (NLP):

- Retrieval tasks including motif identification in Indian classical music
- Retrieval tasks for popular music like cover song identification, structural segmentation. Also focusing on similarity computation for Indian classical and popular music.
- Multi-modal approaches involving text and audio for MIR.
- Text classification problems leveraging Large Language Models and Knowledge Graphs.





Area of Research:



Name : Dr. Hiran V Nath

Qualification : Ph.D.,
(IDRBT/UoH)

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Number Email :hiranvnath@nitc.ac.in

Website address :<https://sites.google.com/site/hiranvnath/>

Google :a6X5I14AAAAJ

Scholar ID :43261854300

Scopus ID :0000-0001-7881-4694

Orcid ID

Cyber Security and Forensics, Computer Networks

- Vulnerability Assessment and Penetration Testing, along with attack graph
- Detecting malware and its analysis process
- Forensics analysis of cyber security incidents, evidence generation and root cause analysis
- Threat Intelligence



Name : Dr. Jay Prakash

Qualification : Ph.D., (IIITM, Gwalior)

Designation : Assistant Professor (Grade II)

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Google Scholar ID :
<https://scholar.google.co.in/citations?user=K9zg8jkAAA&hl=en>

Scopus ID : 56770747700

Orcid ID : 0000-0002-0048-5621

Area of Research:

- Machine Learning,
- Computational Intelligence,
- Data & Text Mining,
- Multi-Objective Optimization



Name : Dr. pournami P N

Qualification : Ph.D., (NIT
Calicut)

Designation : Associate Professor

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Google Scholar ID : vTXuIXoAAAAJ

Scopus ID : 55341891800

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Area of Research:

- Computer vision, Medical image processing and analysis, machine learning, Deep learning.



Name : Dr. Prabu Mohandas

Qualification : Ph.D., (Anna University)

Designation : Associate Professor

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<https://scholar.google.co.in/citations?user=woQhAcoAAAAJ&hl=en>

Scopus ID : [57193065854](#)

Orcid ID : [0000-0002-8296-6428](#)

Area of Research:

- Image Processing (Plant Disease, Object Detection)
- Medical image Processing(Mammogram & Thermal Images)
- Intelligent Transportation System
- Machine Learning



Name : Dr. Lijiya A

Qualification : Ph.D., (NIT Calicut)

Designation : Associate Professor

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Google Scholar ID : <https://scholar.google.com/citations?user=iJvLadwAAAJ&hl=en>

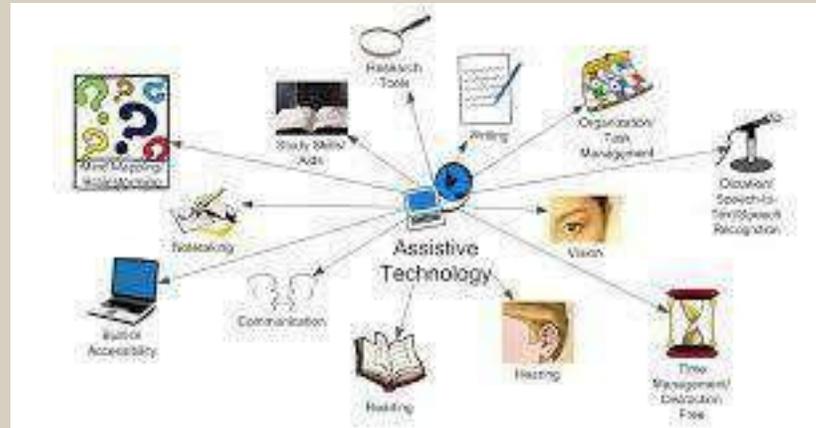
Scopus ID : 55438229300

Orcid ID : <https://orcid.org/0000-0002-8310-1362>

Area of Research: Computer Vision, Artificial Intelligence, Machine Learning

- ✦ Currently my Research focus is on Assistive Technology(AT) mainly in the following areas:
 1. AT for Hearing Impaired
 2. AT for Vision Impaired
 3. Tools for detecting learning Disability.

- ✦ Deepfake Detection Tools



Assistive Technology



Name : Dr. Manjusha K

Qualification : Ph.D., (Amrita)

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Email : 9626968726

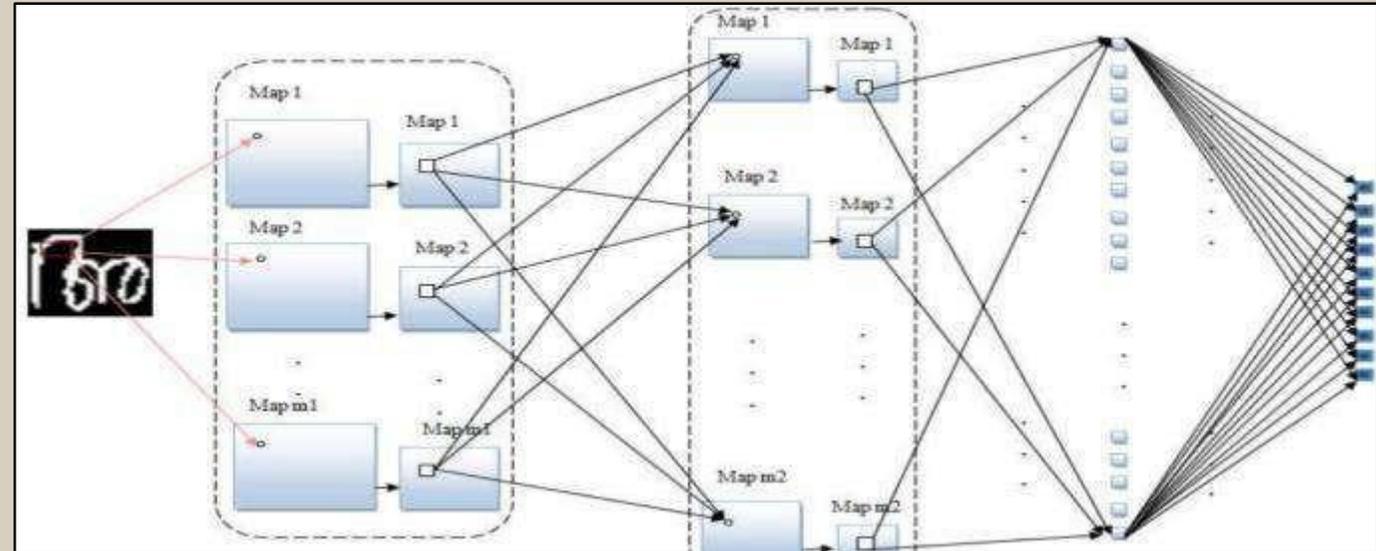
Google Scholar ID : [manjusha@nitc.ac.in](https://scholar.google.com/citations?user=manjusha@nitc.ac.in)

Scopus ID : vm409CsAAAAJ

36998803700

Area of Research:

- ✦ OCR - Worked in the recognition of character images extracted from scanned document images especially in the Malayalam script



- ✦ Currently working on Satellite Images for extracting useful information using Machine Learning techniques



Name : Dr. Renjith P.

Qualification : Ph.D (IIITDM
 Kancheepuram)

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Area of Research: Graph theory and Graph algorithms.

Dichotomy results on the complexity of some problems in graph theory

- Can we partition a graph class into two such that in one of the class a decision problem is NP-Complete, and in the other it has a polynomial-time solution?

Some results and ongoing research

Problem	$K_{1,5}$ -free split graph	$K_{1,4}$ -free split graph
Steiner tree problem	NP-Complete	Polynomial
Hamiltonian cycle problem	NP-Complete	Polynomial
Hamiltonian path problem	NP-Complete	Polynomial
Total Outer-Connected Dominating set	NP-Complete	in progress

Some open problems for further research

Problem	Graph class	Status
Characterization for Hamiltonian path* and Hamiltonian cycle*	k-trees (fixed $k \geq 3$)	open
Spanning tree* with at most (at least) 'm' leaves	k-trees (fixed $k \geq 3$), split graphs	open



Name: Dr. S Sheerazuddin

Qualification: Ph.D. (IMSc,
Chennai)

Designation : Assistant Professor

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Number Email : sheeraz@nitc.ac.in

Website address : <https://sheerazuddins.github.io/>

Google : Eu75tbEAAAAJ

: 36835572400

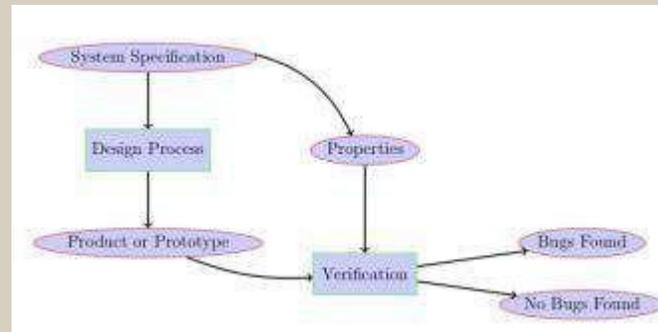
Scholar ID : 0009-0007-6004-2703

Scopus ID

Orcid ID

Area of Research:

- ✦ Logic & Automata
- ✦ Model Checking
- ✦ Multi Agent Systems
- ✦ Probabilistic Verification





Name : Dr. Pranesh Das

Qualification : Ph.D., (NITN)

Designation : Assistant Professor

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<https://nitc.ac.in/department/computer-science-amp-engineering/faculty-and-staff/faculty/page/3>

Google Scholar ID :
<https://scholar.google.com/citations?user=suWm38AA>

Scopus ID : 55823595100

Orcid ID : 0000-0002-4375-676X

Area of Research:

- Data mining, optimization, machine learning and applied computing



Name : Dr. Raju Hazari
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<https://people.cse.nitc.ac.in/rajuhazari/>
 Google : rcogsCMAAAAJ
 Scholar ID : 55794688700
 Scopus ID : 0000-0003-1145-959X
 Orcid ID :

Area of Research:

- Cellular Automata
- Machine Learning



Name : Dr.Venkatarami Reddy
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Google Scholar ID :
<https://scholar.google.co.in/citations?user=17bBkHEAAAAJ&hl=en>
Orcid ID : 0000-0003-2806-2230

Area of Research:

Softwarization and Cloudification of Networks (Network Function virtualization (NFV)) for Beyond 5G and 6G, Networks and Wireless systems, Open Radio Access Networks (O-RAN), Mobile Edge Computing, Vehicular Networks, Internet of Things (IoT), Machine learning in networks.

- Current area of work
 - Designing mechanisms at NFV orchestrator for ensuring performance isolation for End-to-End (E2E) Network Slicing for B5G and 6G services.
 - AI/ML for vRAN network slicing



Name: Mr. Sreenu Naik Bhukya
Qualification: M.Tech, (Ph.D)
(IITDhanbad)

Designation : Assistant Professor

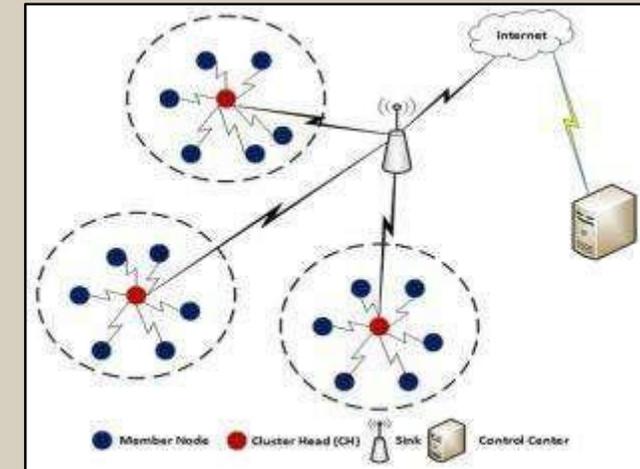
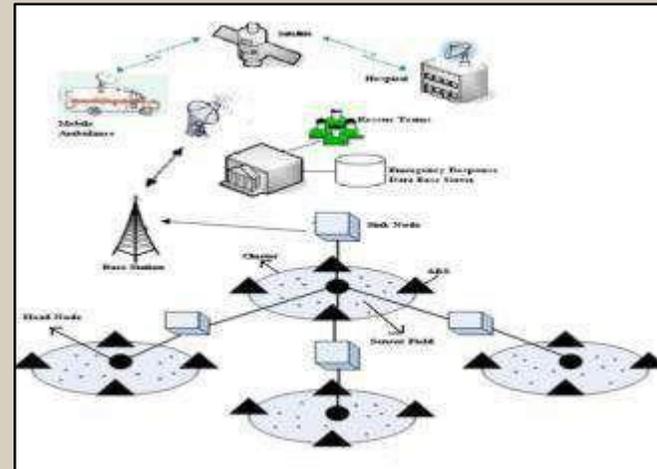
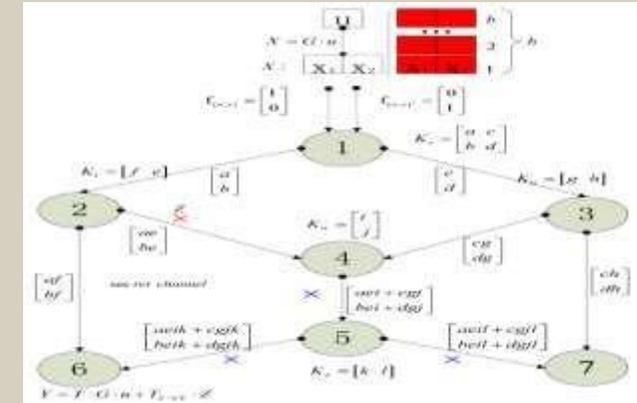
Contact Number : 9995101708

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Website address : https://people.cse.nitc.ac.in/sreenu_nunaikbukya/

Area of Research:

- ✦ Wireless Sensor Networks
- ✦ Energy Efficiency
- ✦ Network Coding





Name: Dr. T. Veni

Qualification: Ph.D., (NIT Trichy)

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Scopus ID : 57202679464

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Area of Research:

- Cloud Computing
- Fog Computing
- Internet of Things (IoT)



Name: Dr. Vasudevan, A. R.

Qualification: Ph.D. (NIT Trichy)

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Area of Research:

- Areas of Interest
 - Network Security, Systems Security, IoT and IoT Security
 - Security issues in UAVs
 - Practical applications of AI in defensive cybersecurity



Name: Mr. Sumesh T A

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Google : :

Scholar ID :

Scopus ID : 0000-0001-6579-3193

Orcid ID

Area of Research:

- Computer Networks
- Computer Vision



Name: Dr. Nirmal Kumar Boran

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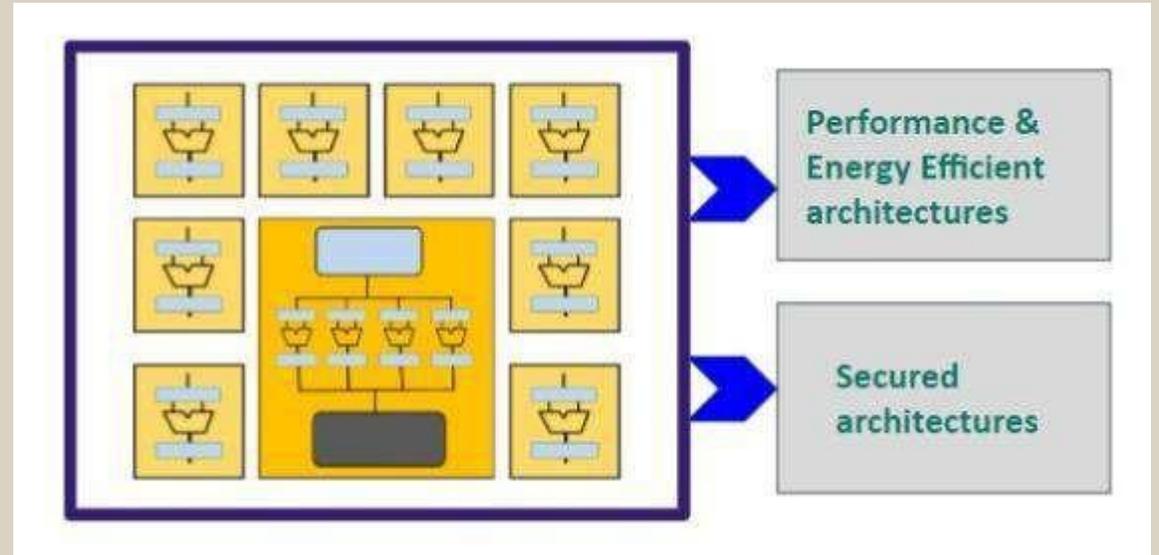
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Scopus ID : 0000-0003-3942-

Orcid ID 7899

Area of Research:

I work in the domain of computer architecture, processor design, security.





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department : Computer Science and Engineering



Name : Mr. Srinivasa T
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(PhD)

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<https://nitc.ac.in/department/computer-science-amp-engineering/faculty-and-staff/faculty>

Area of Research:

- DNA Computing, Parallel Computing
- HPC, Hardware

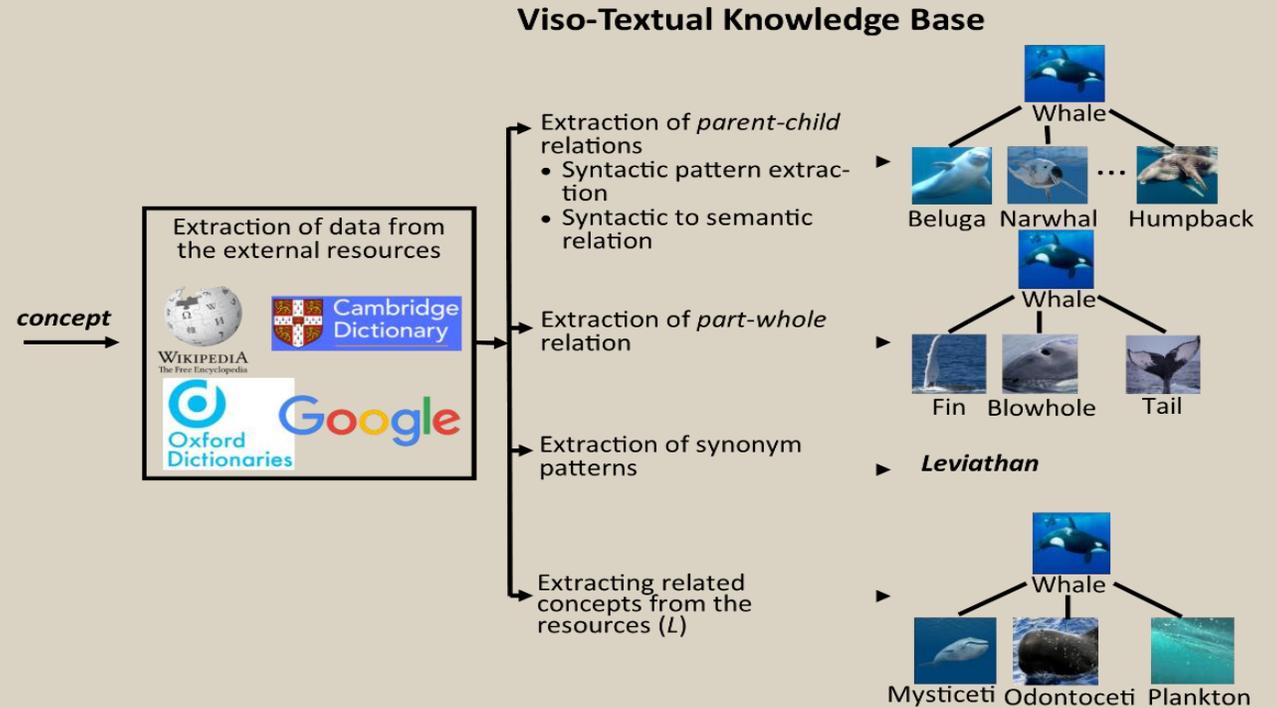


Name : Dr. Chandramani Chaudhary
 Qualification : Ph.D., Birla Institute of
 Technology And Science

Designation Contact : Assistant Professor
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 Website address : chandramanic@gmail.com
 Google Scholar ID :
 Scopus ID : Ds7Rs3IAAAAJ&hl=en
 : 57202302678

Area of Research:

Currently focused on constructing knowledge graphs by harnessing multimodal data, which entails the intersection of machine learning, computer vision, and natural language processing. Concurrently, actively engaged in the field of drug discovery research.





Name: Dr. Santosh kumar Behera

Qualification: Ph.D., IIT Bhubaneswar

Designation : Assistant Professor

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Website address : <https://scholar.google.co.in/citations?user=3Pq3UdQAAAAJ&hl=en>

Google Scholar ID : <https://sites.google.com/view/behaviorask/research>

Area of Research:

Artificial Intelligence, Computer Vision, Human Computer Interaction, Augmented and Virtual Reality, Biomedical Image Processing

1. [A Robust Biometric Authentication System using 3D Finger Motions in Air](#)
2. [Computer-Vision-Guided Human Pulse Rate Estimation](#)
3. [Designing of Marker-based Augmented Reality Learning Environment for Kids](#)

Some of Published Works

1. AutoRoD (patent filed)
2. IEEE Trans. On Consumer Electronics
3. MTAP, Springer
4. IEEE Trans. On Consumer Electronics
5. Displays, Elsevier
6. ICPR



Name : Dr. Muneeswaran P

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Google Scholar ID : U4r15B4AAAAJ

Scopus ID : 57219145653

Orcid ID : 0000-0003-4099-3003

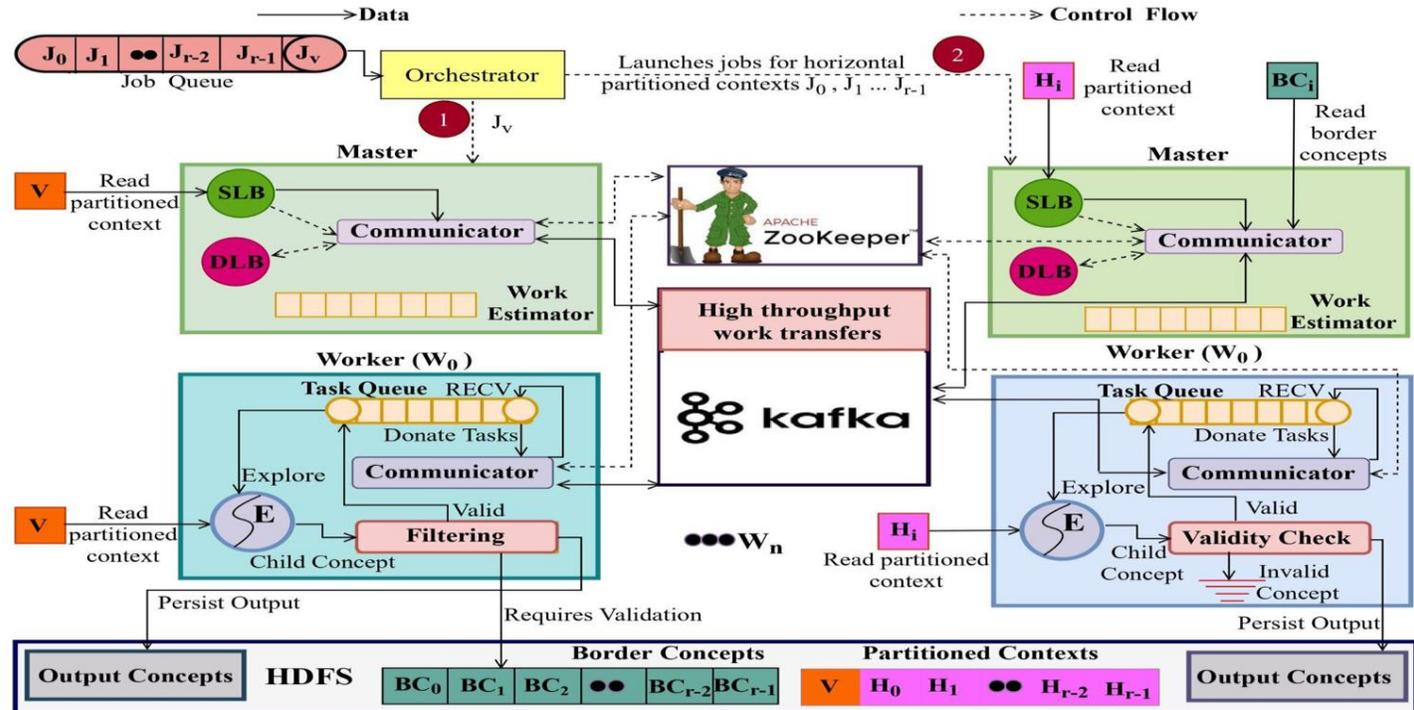
Area of Research:

Distributed System, IoT, Formal Concept Analysis, and Federated Learning

Write two to three points about your area of expertise/Current area of work.

Designing a scalable distributed framework to handle the irregular workload that runs on commodity hardware.

Provisioning the resources elastically according to the computational efficiency of the cluster.



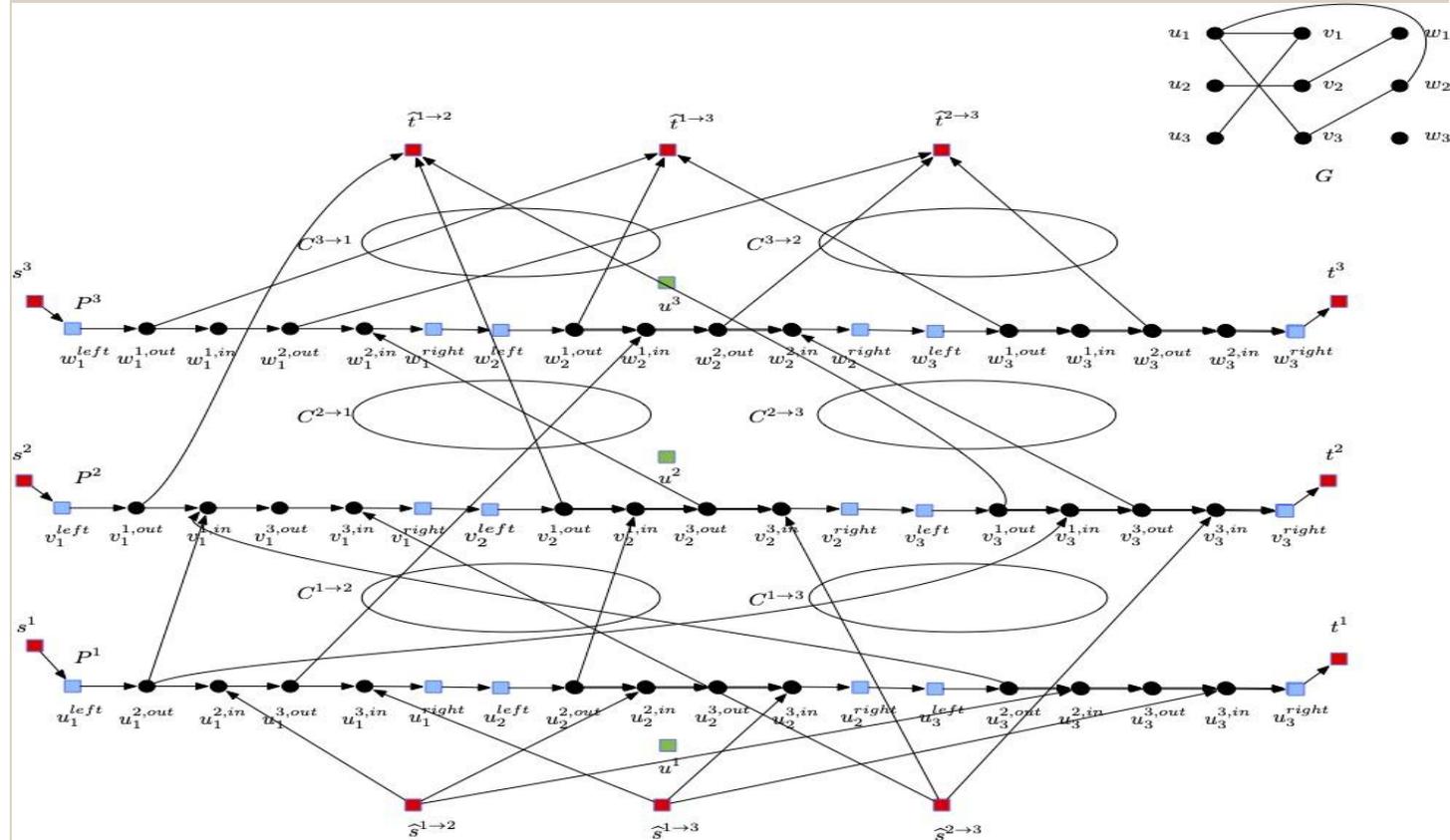


Name : Dr. Ashwin Jacob
 Qualification : Ph.D., Institute of
 Mathematical Sciences, Chennai,
 HBNI, India

Designation : Assistant Professor Grade II
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<https://scholar.google.com/citations?user=nyQkLtQAAAAJ&hl=en>
 Google Scholar ID : 57202372156
 Scopus ID : 0000-0003-4864-043X
 Orcid ID

Area of Research: Parameterized Algorithms

Primary research interest is in the parameterized complexity of graph algorithms with a special focus on vertex deletion problems and associated structural parameterizations.



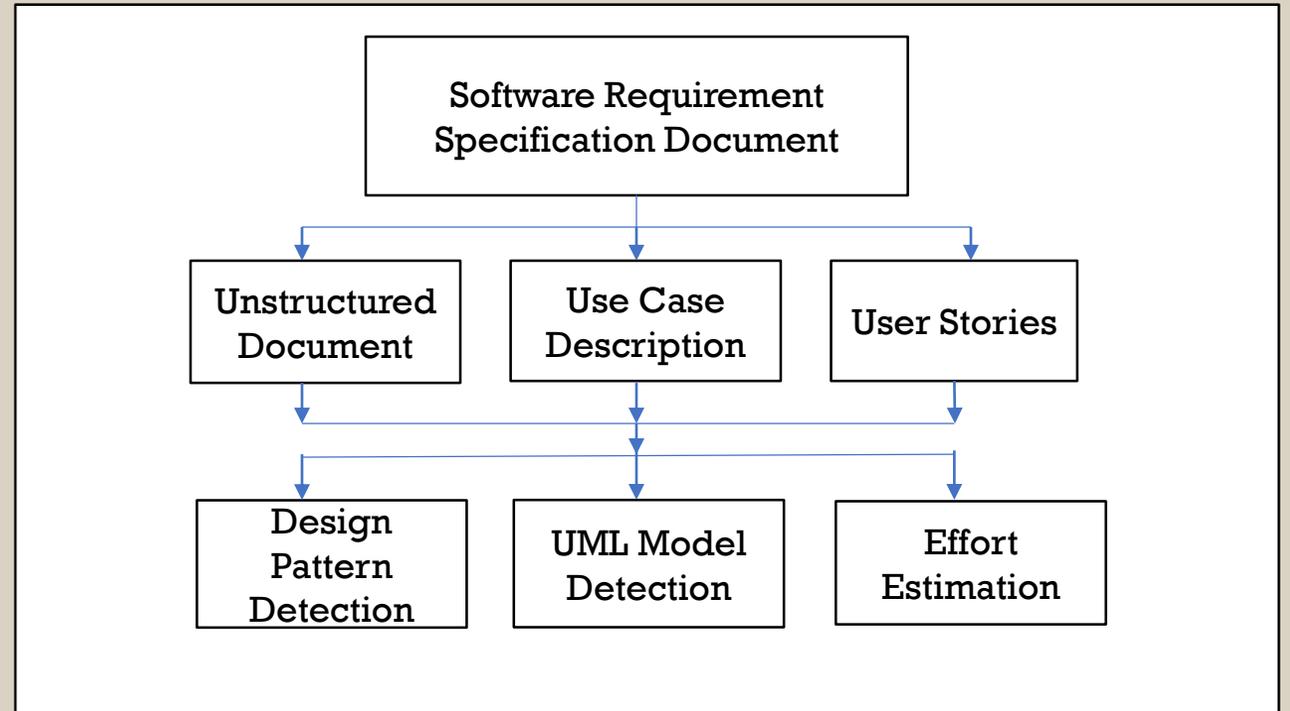


Name : Dr. Shweta
 Qualification : Ph.D., IIT Allahabad

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 Google Scholar ID : 7uPRe50AAAJ
 Scopus ID : 57206353176
 Orcid ID : 0000-0003-3935-8256

Area of Research:

I have dedicated my research efforts to the areas of Natural Language Processing, software engineering, and requirement modelinG.
 I am also focusing over different research domain in software engineering such as effort estimation, design pattern detection.





Name : Dr. Vidhya Kamakshi

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Website address:

Google Scholar ID :

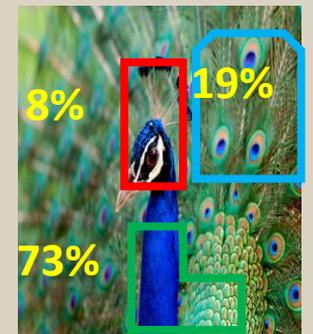
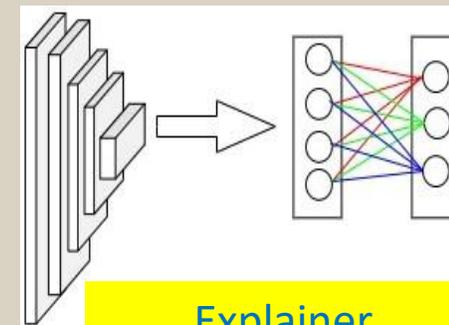
<https://scholar.google.com/citations?user=Fi-R6wEAAAAJ&hl=en>

Scopus ID : 57225895617

Orcid ID : 0000-0001-7588-6318

Area of Research: Explainable AI, Computer Vision

My research attempts to unravel the black box nature of Neural Networks, which is one of the current state-of-the-art machine learning models, thereby encouraging more research and applications leveraging these models, which already have great representational and generalization ability and shall have better explainable nature which the users and researchers can leverage to fine-tune the models and apply them onto various high-risk application scenarios as well where currently the use of these state of the art neural network models is limited due to their uninterpretable and black box nature.





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department : Computer Science and Engineering



Name : Dr. Umamaheswara

Sharma B

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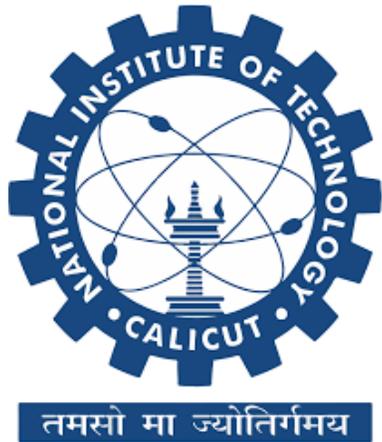
Area of Research:

Software Engineering, Document Analysis and Recognition, Machine Learning, Software Reliability

Current focus of my research is on the topic such as Software Defect Prediction, Investigating the Feasibility of SDP models and the Handwritten Character Recognition Models.

[Back](#)

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Electrical Engineering

LIST OF FACULTY

- Dr. Gopakumar P
- Dr. B Amrutha Raju
- Dr. Greeshma Mohan U
- Dr. Korra Balu
- Dr. Soumya Ranjan Meher
- Dr. Sunitha K
- [Dr. Angshudeep Majumdar](#)
- [Dr. K M Arun Neelimegham](#)
- [Dr. Harish Sudhakaran Nair](#)
- [Dr. Jagadanand G](#)
- [Dr.S. Kanagalakshmi](#)
- [Dr. Kumaravel S.](#)
- [Dr. Mija S J](#)
- [Dr. Mithun M. S.](#)
- [Dr. Nasirul Haque](#)
- [Dr. Nikhil Sasidharan](#)
- [Dr. Sanjay M](#)
- [Dr. Preetha P](#)
- [Dr. Rakesh R Warier](#)
- [Dr. Rijil Ramchand](#)
- [Dr. Shreelakshmi M P](#)
- [Dr. Sindhu T K](#)
- [Dr. Subha D.Puthankattil](#)
- [Dr. Subhash K.M.](#)
- [Dr. Sunitha R](#)
- [Dr. Vivek Mohan](#)
- [Dr.S.N.Deepa](#)
- [Dr. Nimal Madhu M.](#)
- [Dr. Devesh Shukla](#)
- [Dr. Ashiq Muhammed P E](#)
- [Dr. Ranjith Ravindranathan Nair](#)
- [Dr. M. Raghuram](#)
- [Dr. Sathiya S](#)
- [Dr. Rahul Radhakrishnan](#)



Area of Research: Power System Stability Analysis with Focus on Grid-Tied Inverters and Renewable Integration



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Google Scholar ID: ulgH5jwAAAAJ

Scopus ID : 55321000200

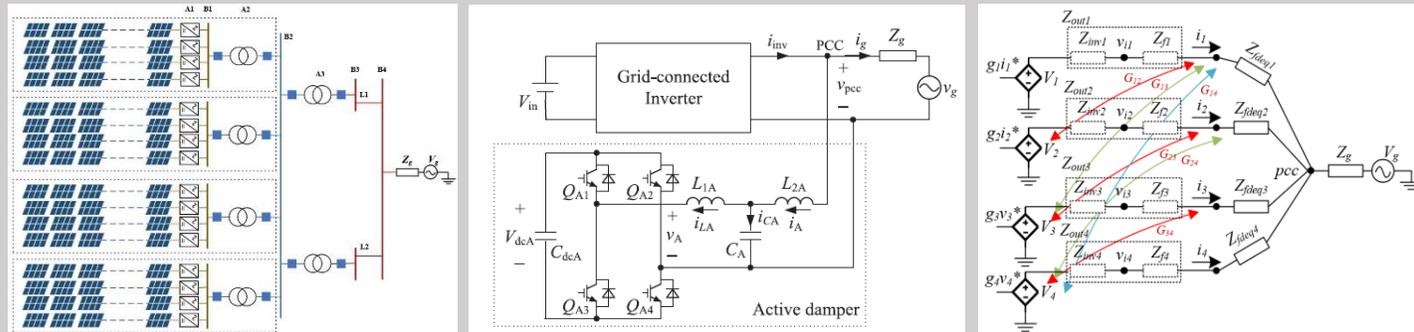
Orcid ID : 0000-0002-9018-9446

Core Expertise:

- Power System Stability Analysis
- Grid-Tied Inverters and Renewable Integration

Current Research Focus:

- Interaction of Grid-Tied Inverters with High Penetration of Solar Panels
- Addressing challenges in grid stability and operational resilience





Name : Dr B Amrutha Raju

Qualification : PhD(NIT Andhra Pradesh)

Designation : Assistant Professor G-II

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Google Scholar ID:

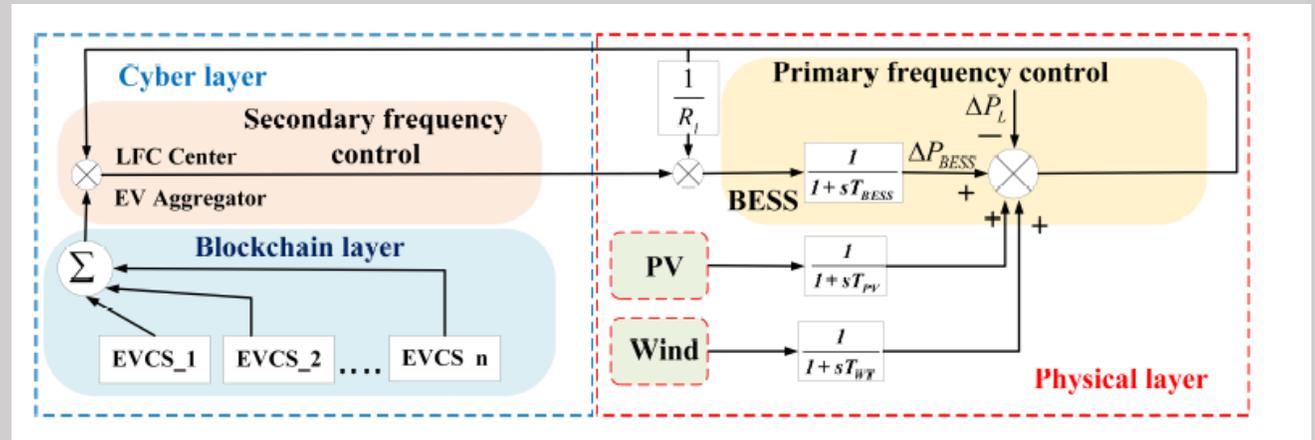
<https://scholar.google.com/citations?user=xVCWlaEAAA&hl=en>

Scopus ID :

www.scopus.com/authid/detail.uri?authorId=57247503300

Area of Research:

- Distributed control for frequency regulation.
- Integration of Energy storages and EVs for ancillary services .
- Residential wind energy generation systems.
- Learning algorithms for power system stability and resilience.
- Energy Market with cyber physical security .





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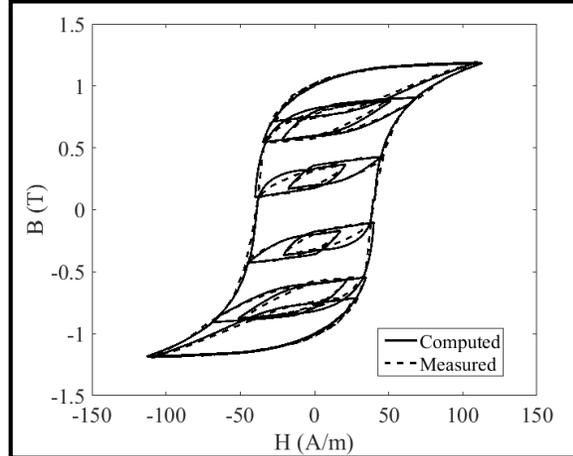
Google Scholar ID : <https://scholar.google.com/citations?user=W5HfCMoAAAAJ&hl=en&oi=a>

Scopus ID :57212062375

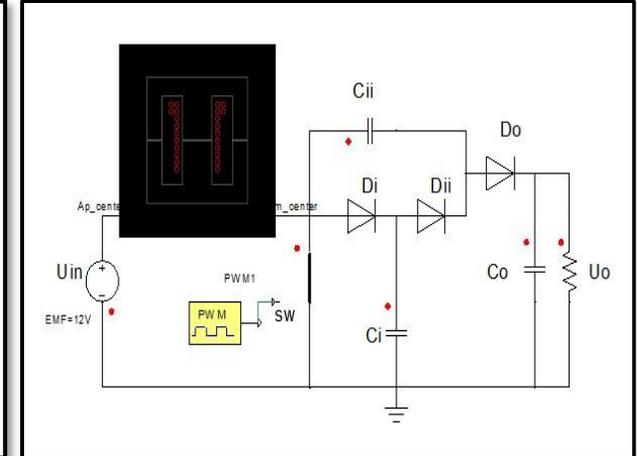
ORCID ID :0000-0002-1965-8043

Area of Research:

- Characterization and Modeling of Magnetic Materials
- Electromagnetic and Coupled Field Computations for Electrical Equipment and Machines
- Magnetics for Power Electronic Converters
- Energy Transition and Renewable Electricity Generation
- Condition Monitoring of Power Transformers



Modeling of hysteresis loops under PWM excitation for use in FEM simulation



Coupled field-circuit analysis of DC-DC converter



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 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering

Area of Research:

Developing novel MOAs for solving single & multiobjective problems, Optimal penetration of DG, SC, DSTATCOM, V2G/G2V in power systems, Smart grids, Microgrids, Cybersecurity, Cyber-attack & Cyber treat in power & energy systems,



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Contact Number: +919182892744

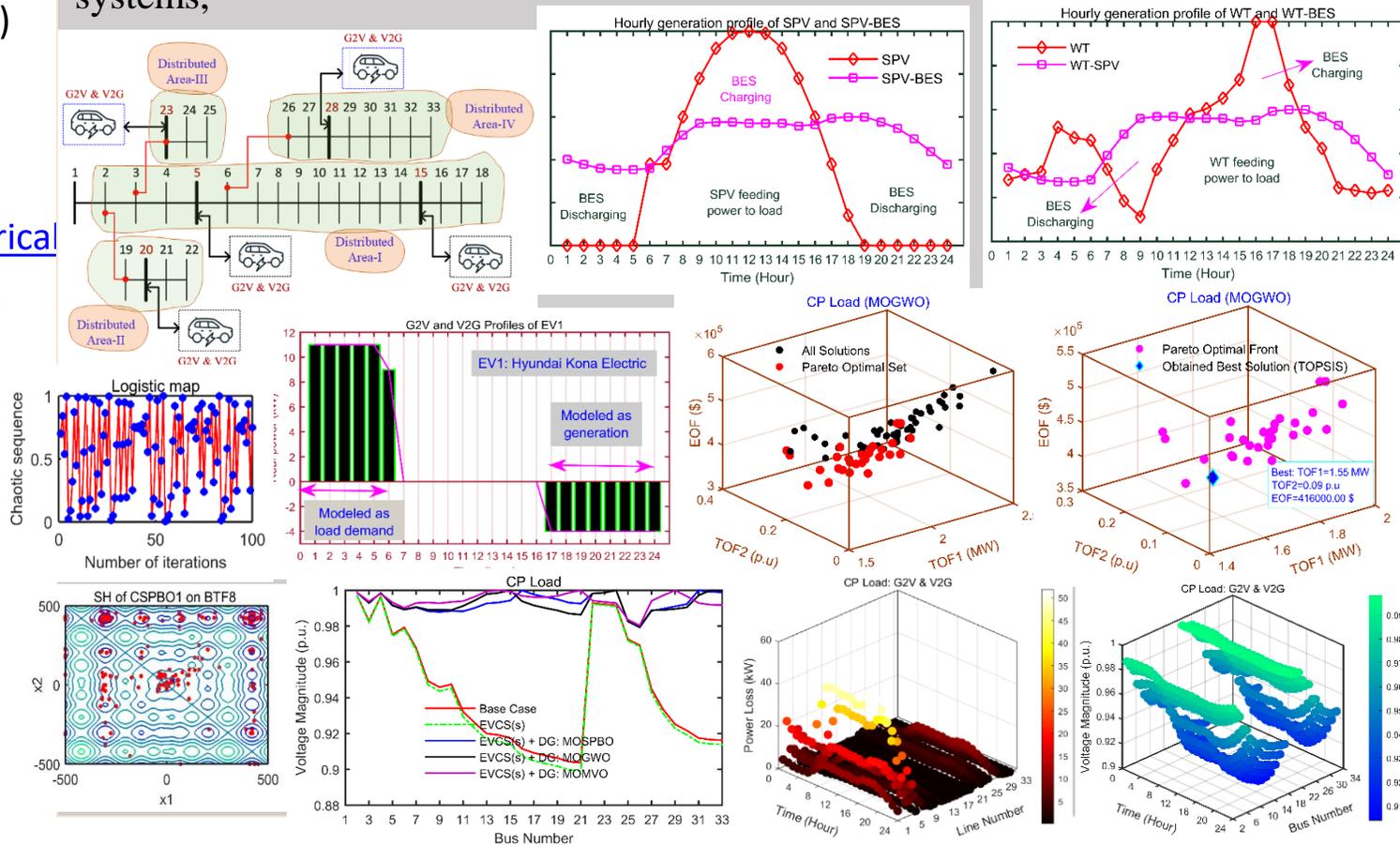
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Orcid ID: [0000-0003-2426-533X](https://orcid.org/0000-0003-2426-533X)





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering



Name : Dr. Soumya Ranjan Meher

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<https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/37e941bb-e1ff-4ab8-b64c-d610884a4ed5>

Google Scholar ID :

Scopus ID : 57216550293

Orcid ID : 0000-0001-6518-5585

Area of Research:

- Power Processor design for Electric Vehicles (EVs).
- Modelling, simulation, and control of Power Electronics System.
- Optimal Battery charging.
- Wireless EV charging.
- Application of WBG devices (GaN MOSFET) for designing high frequency power conversion.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department:Electrical Engineering

Area of Research: Electromagnetic Interference and Compatibility of Biomedical end Electrical Systems



Name : Dr. Sunitha K

Qualification : Ph D

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Website address : <https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/6f5c5a75-fbad-4815-a0ec-d07aca23d34e>

Scopus ID : [56078487100](https://scopus.com/authorid/56078487100)

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Research into Electromagnetic Interference (EMI) and Compatibility (EMC) focuses on protecting sensitive biomedical devices, power electronic devices , PCB etc. from external electrical noise that can cause critical malfunctions in these equipments equipment like pacemakers or ventilators. The research work is mainly carried out in investigating advanced mitigation techniques, such as specialized shielding materials and signal-filtering algorithms, to ensure that multiple electronic / electrical systems can coexist safely in dense electromagnetic environments. By adhering to international standards, this research bridges the gap between electrical engineering and patient safety to prevent diagnostic errors and device failures.



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Google Scholar ID:

<https://scholar.google.com/citations?user=JXNiwnAAAAAJ&hl=en>

Scopus ID: 57191861986

Orcid ID: 0000-0001-5525-7282

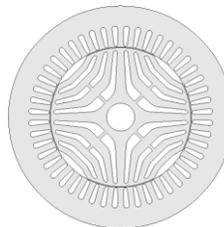
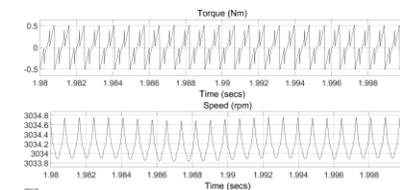
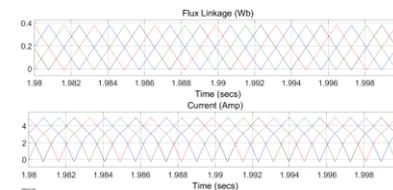
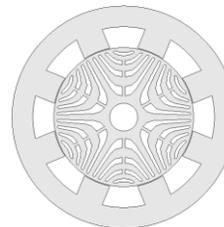
Area of Research:

Presently working on the following areas:

- Analysis of electrical machines using finite element method
- Design and control of non-conventional machines for electric vehicles application

Interested to explore the following areas:

- Grid connected inverter for renewable energy integration
- Multilevel converter for medium voltage ac drives
- Isolated dc-dc power converter for electric vehicle charging





Name : Dr.KM Arun Neelimegham

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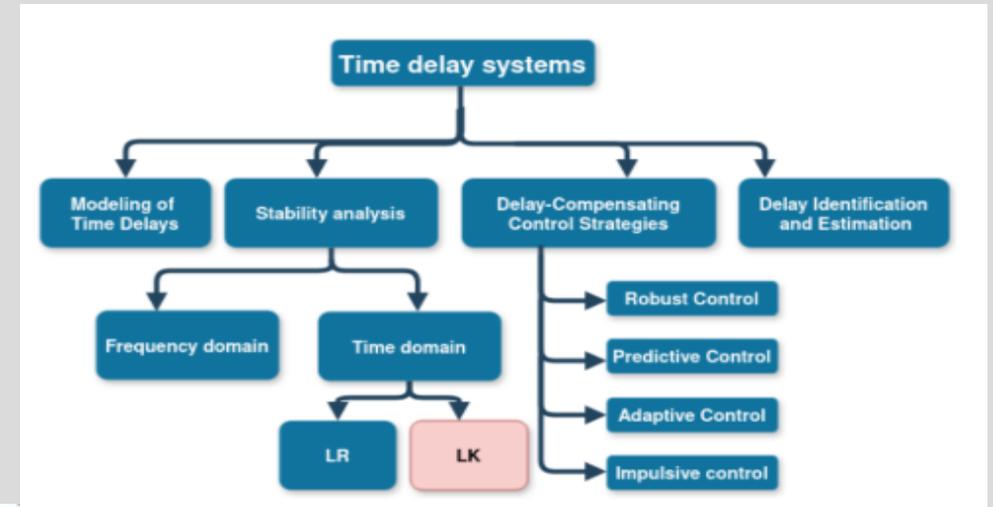
Google Scholar ID : <https://scholar.google.com/citations?user=qoN8BvIAAAAJ&hl=en&authuser=1>

Scopus ID :57210475402

Orcid ID :https://orcid.org/0000-0002-3077-9305

Area of Research:

- Controller design for time delay systems
- Modelling of fuzzy PID controller
- Model Predictive control
- Controller design for power converters





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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering



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Area of Research:

Power Electronics

- Broad area of research expertise is in the advanced control of power electronic converters.
- Current research is focused on
 - predictive control of single-phase and three-phase front-end rectifiers
 - modeling and analysis of high-frequency switching effects on control implementation
 - digital control techniques for high-frequency switched power supplies



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Department: Electrical Engineering



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Google Scholar ID :
<https://scholar.google.com/citations?user=Rtst11YAAAAJ&hl=en>

Scopus ID : 57202913709

Orcid ID : 0000-0001-8299-2450

Area of Research:

Condition Monitoring of Electric Systems - including Motors, Converters / Inverters, Energy Storage Systems etc.

- Electric Vehicles.
- Embedded system.



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Scopus ID :

Orcid ID :0000-0002-6935-5905

Area of Research:

- Process control automation
- Control & Instrumentation
- Multi-model Control Systems
- Adaptive Control
- Machine learning in Process control
- Robotics & Control



Interacting Hybrid Tank system



DSP based DAQ



Quadrotor



Name: Dr. Kumaravel S.

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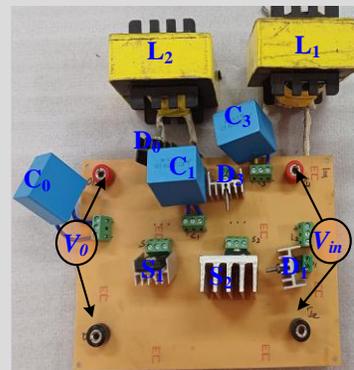
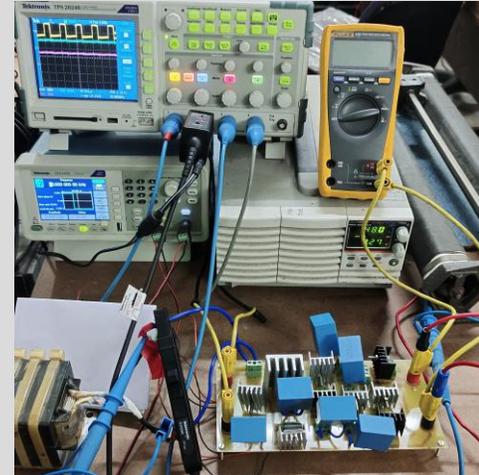
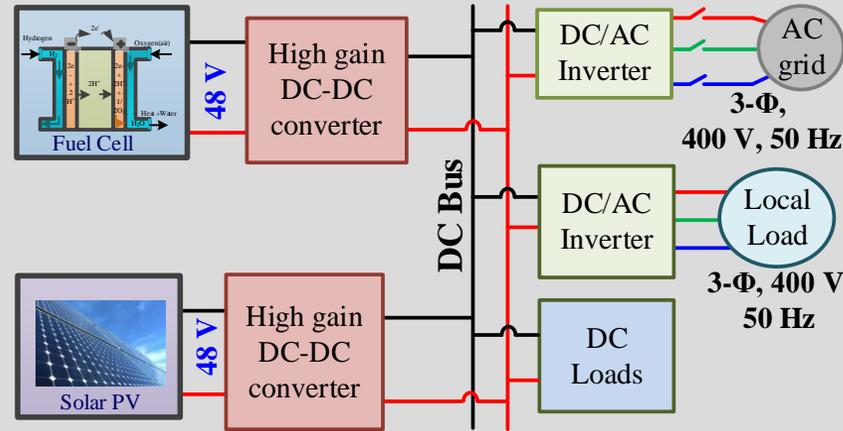
Google Scholar ID :
<https://scholar.google.co.in/citations?user=Ce-6ipUAAAAJ&hl=en>

Scopus ID : 56862003200

Orcid ID : 0000-0002-3795-7768

Area of Research:

- Design and development of high gain DC-DC converters and Multi-input DC-DC converters, stability improvement of microgrid.





Name: Dr. Mija S J

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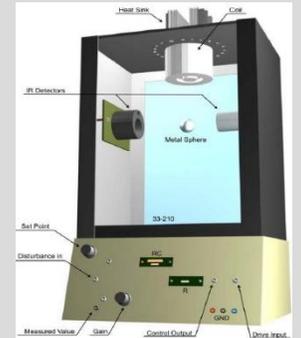
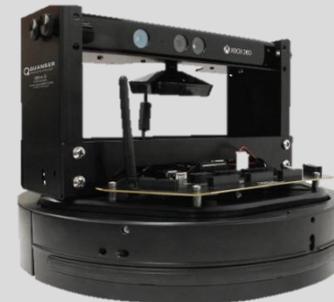
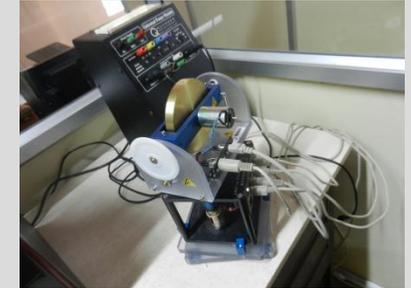
Website address: <https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/b12754c4-3937-4889-9bb8-e817e10ee824>

Google Scholar ID : <https://scholar.google.com/citations?user=SZPdW0cAAAAJ&hl=en>

Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=25724563100>

Area of Research:

Analysis and control of nonlinear systems, flight control systems, multi-agent systems, robotic systems, sliding mode control, biologically inspired controllers, etc.



Area of Research:

Name: Dr. Mithun M. S.

Qualification: Ph.D., IIT Madras

- Measurements and Instrumentation
- Design of inductive and capacitive sensors
- Condition monitoring and diagnostics of transformers



Designation : Assistant Professor, EED

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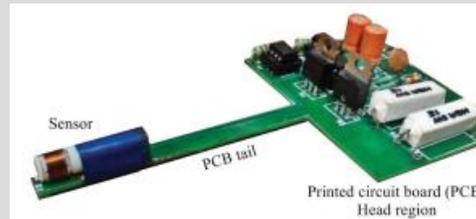
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Website address : www.nitc.ac.in

Google Scholar ID : KFsOMRsAAAAJ

Scopus ID : 55388645600

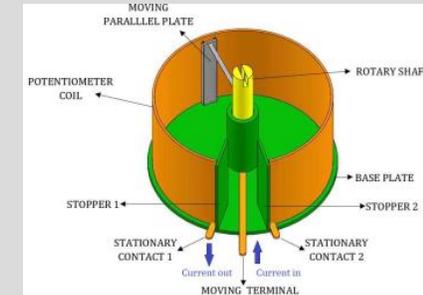
Orcid ID : 0000-0002-1960-685X



A miniaturized inductive proximity sensor with extended sensing range



A cost-effective, capacitance-based ppm sensor for transformers



A non-contact, potentiometric angle transducer



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering



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Area of Research:

High Voltage Engineering

- Dielectric Materials
- Condition Monitoring of Power Apparatus
- Partial Discharge



Name: Nikhil Sasidharan

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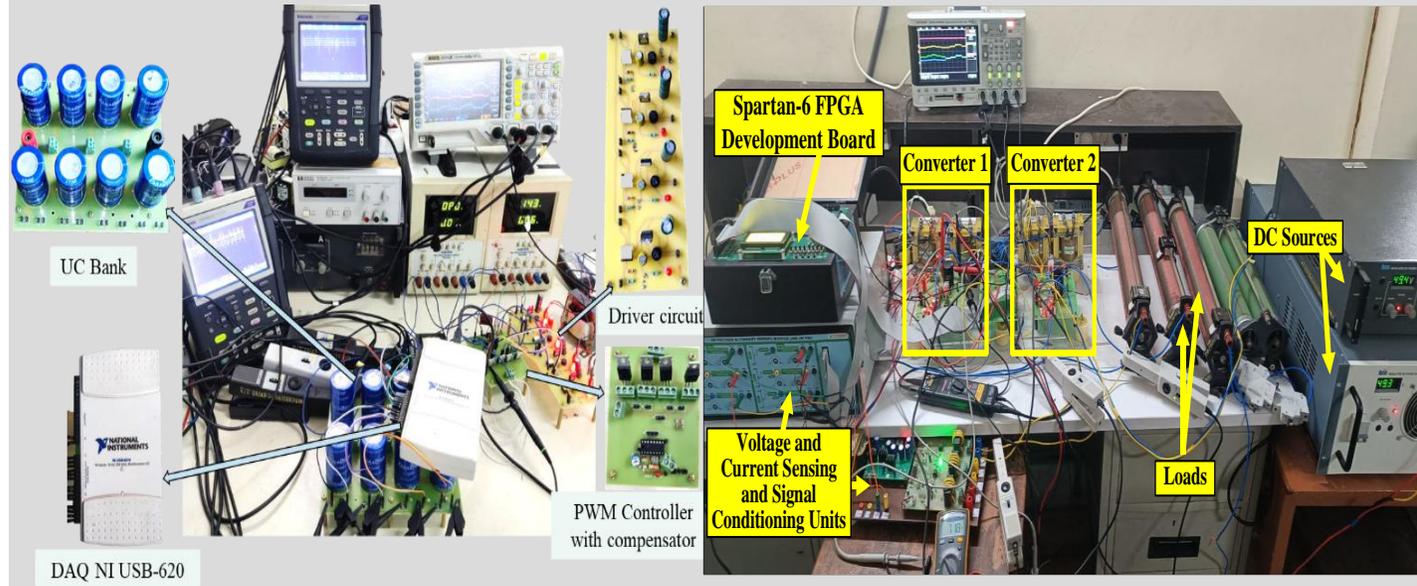
Scopus ID :56866034600

Orcid ID :0000-0002-8188-3444

Area of Research:

Low voltage microgrid modelling

- EV motor/ Drive design,
- Solar PV installation
- EV charging adapters





Name : Dr. Preetha P

Qualification : Ph.D., Indian Institute of Science, Bangalore

Designation : Professor

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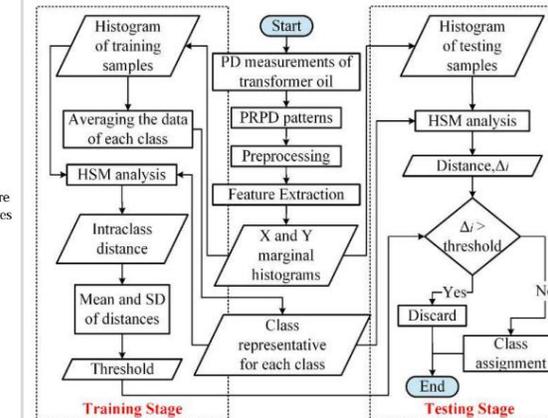
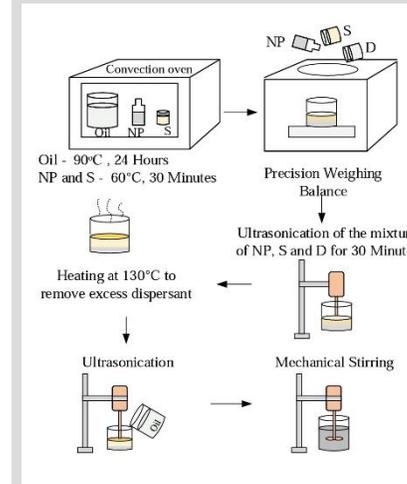
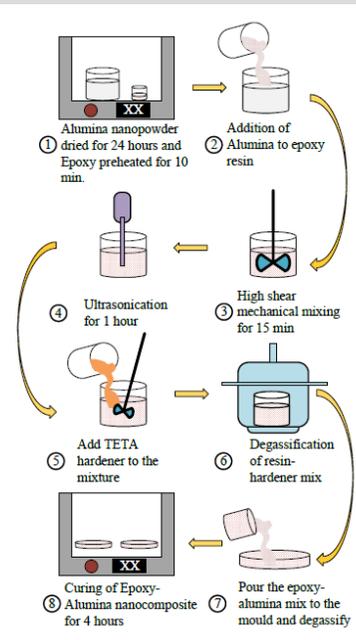
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Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=57206683257>

Orcid ID : <https://orcid.org/0000-0001-5822-2528>

Area of Research:

- Development of new solid and liquid nanodielectric materials for high voltage applications.
- Condition monitoring of power apparatus using statistical data analysis and artificial intelligence techniques.





Area of Research:



Name : Rakesh R Warier
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<https://scholar.google.co.in/citations?user=QsG8IGEAAAAJ&hl=en>:
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Orcid ID : <https://orcid.org/0000-0002-3396-0441>

- My research primarily focus on developing control algorithms, that enable effective coordination of swarms of robots to effectively execute tasks cooperatively under disturbances and measurement errors. The work has potential applications for coordinated control of groundbots, UAVs, and teams of underwater vehicles.



Name: Rijil Ramchand

Qualification: Ph.D., (IISc Bangalore)

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Scopus ID :26635891200

Orcid ID :0000-0003-0938-2300

Area of Research:

- Power Electronics
- Induction Motor Drives
- Multi-level Inverters
- Current-controlled Inverters



Name : **Dr. M Sanjay**

Qualification : Ph.D Bioengineering

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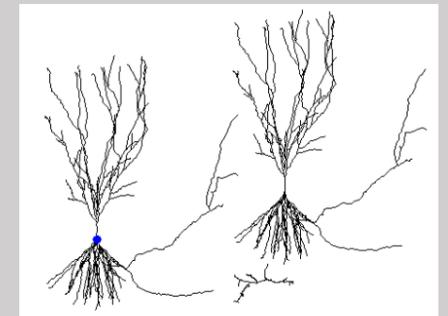
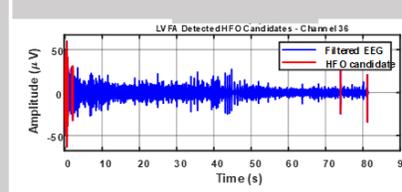
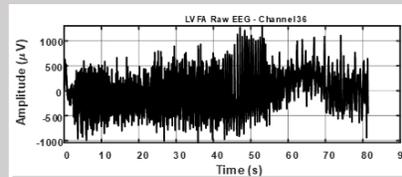
Google Scholar ID : [Dr M Sanjay EED - Google Scholar](#)

Scopus ID :

Orcid ID :0000-0002-6149-4345.

Area of expertise/Current area of work:

- EEG Signal Classification for Brain Computer Interfaces using Motor Imagery Tasks.
- Epileptic EEG Signal Processing for Precise Localization of Seizure Onset Zones.
- EEG Signal Analysis for Early Detection of Epileptic Activity using AI / ML Methods.
- Computational Network Modelling of Neuronal Networks in Temporal Lobe of Brain in Health and Disease
- Instrumentation Development for Respiratory Function Analysis
- Control Systems for Medical Instrumentation



CA3 Pyramidal Neuron Network

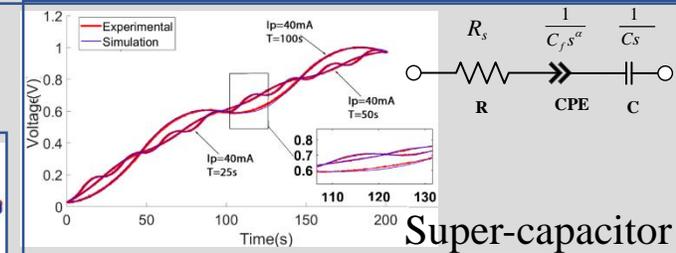
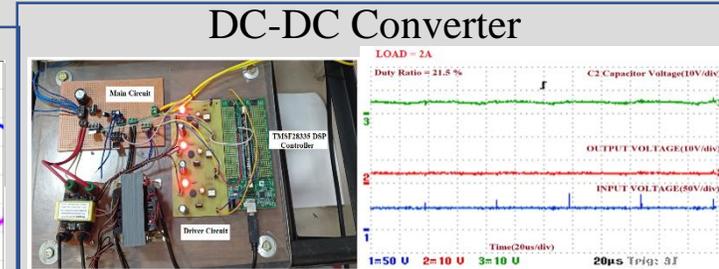
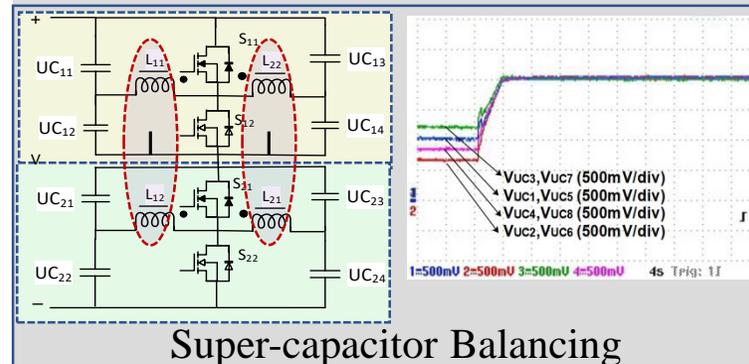
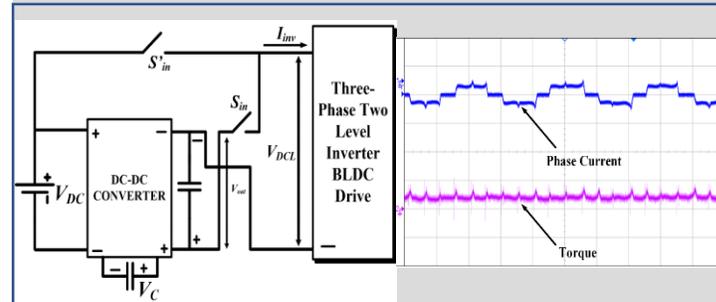


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Scopus ID : 55849170600
Orcid ID : 0000-0002-4813-0475

Area of Research:

- Electric Vehicle charging technology
- Motor drives – BLDC , SynRM, Induction Motor, EESM
- Super capacitor bank – BMS, Balancing schemes etc





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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering

Area of Research:



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Google Scholar ID :
<https://scholar.google.co.in/citations?user=zGIFpYgAAAAJ&hl=en>

Scopus ID :2794001100

Orcid ID : 0000-0003-4795-1308

Generation of nonthermal plasma and it's application in various fields

- Development of nanocomposite insulators
- Development of nanocomposite materials for EMI shielding
- Electromagnetic compatibility analysis



Name: Subha D.Puthankattil

Qualification: Ph.D.(NITC)

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Google Scholar ID:
<https://scholar.google.com/citations?user=NfZfrIIAAAAJ&hl=en>

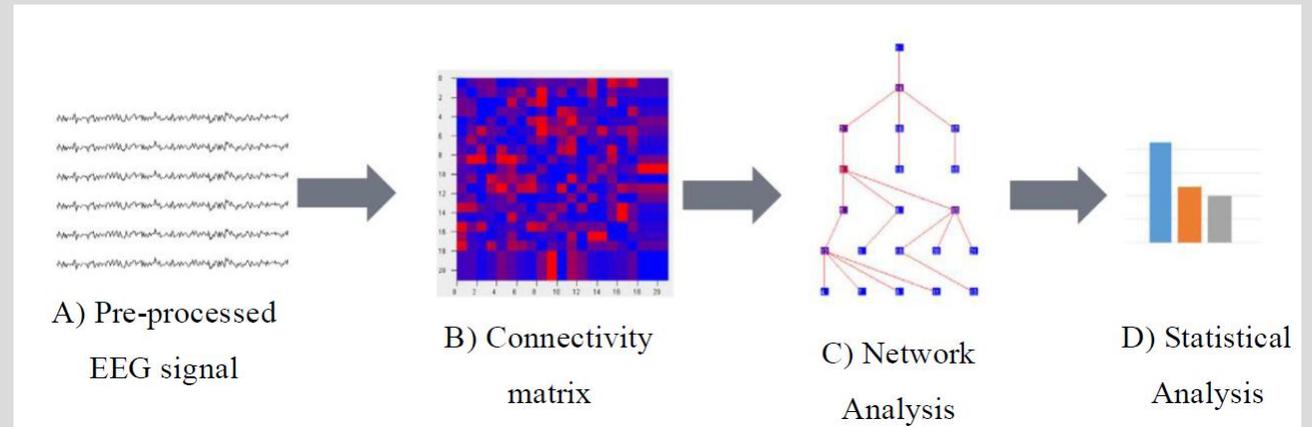
Scopus ID :55436927500

Orcid ID : 0000-0001-9413-4955

Area of Research:

Biomedical Engineering - Computational Neuroscience

- Analysis of EEG signals under psychiatric and neurologic disorders :neurodevelopmental/ neurodegenerative diseases(Alzheimers disease, Autism Spectrum Disorder, Depression, Schizophrenia, DL, ML and AI applications in biomedical Engineering)





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Department: Electrical Engineering



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Qualification: Ph.D., (NIT Calicut)

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Google Scholar ID :
Scopus ID :[55220454200](https://orcid.org/0000-0001-8000-8763)
Orcid ID :0000-0001-8000-8763

Area of Research:

- Biomedical Signal/ Image processing and analysis (ECG, EMG etc.).
- Biomedical signal acquisition, processing and analysis for healthy and diseased subjects using ML and DL approaches.
- Continuous monitoring of subjects using biomedical signals



Name: Dr. Sunitha R

Qualification: Ph.D., (NIT Calicut)

Designation : Associate Professor

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Google Scholar ID : IFj3wToAAAAJ

Scopus ID : 57190393113

Orcid ID : [0000-0002-4247-4998](https://orcid.org/0000-0002-4247-4998)

Area of Research:

- Wide Area Monitoring, Protection and control of Power Systems
- Power System Security assessment and Security level prediction
- Assessment of Dominant Oscillatory modes in Power Systems and its mitigation
- Dynamic State Estimation for Wide Area Monitoring of Power Systems
- Synchrophasor Data Driven Islanding Detection Strategies and a Defensive Scheme for Microgrids
- Self healing of propagating disturbances in Power systems

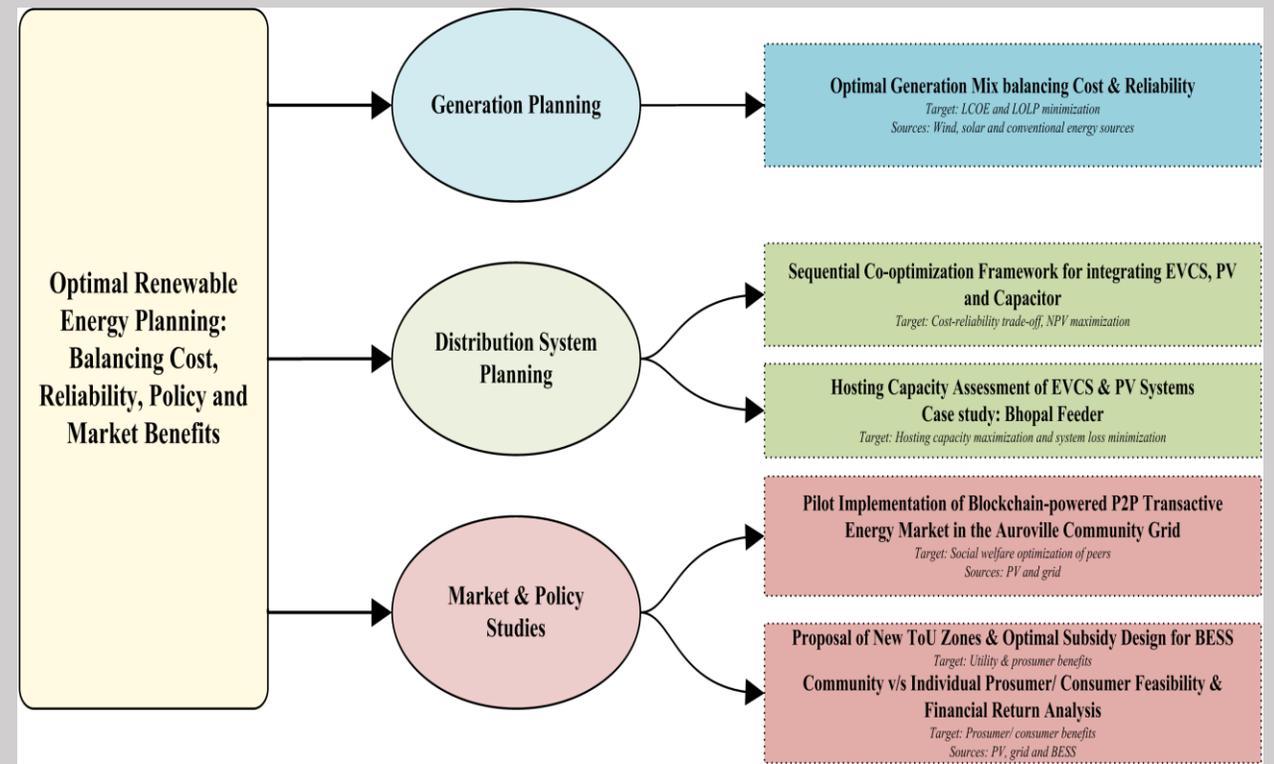


Name: Vivek Mohan
 Qualification: Doctor of Engineering
 Asian Institute of Technology, Thailand

Designation : Assistant Professor
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 Scopus ID : 56245256200
 Orcid ID : 0000-0002-3304-7150

Areas of Research:

- Electricity Markets, Risk Management and Optimization in Energy Systems, Power System Economics, Power System Stability, Microgrid Energy Management
- Current work: Energy portfolio optimization and selection, Electricity market analysis and pricing: TSO-DSO co-ordination, Energy blockchain and local energy and Green energy markets, Microgrid energy management, Tariff and feed-in-tariff rationalization, Stakeholder benefit optimization, Distributed generation economics, Stochastic optimal power flow studies with renewables, Economic dispatch in deregulated power systems, Reliability studies with renewables, Bifurcation analysis in power systems





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Department: Electrical Engineering

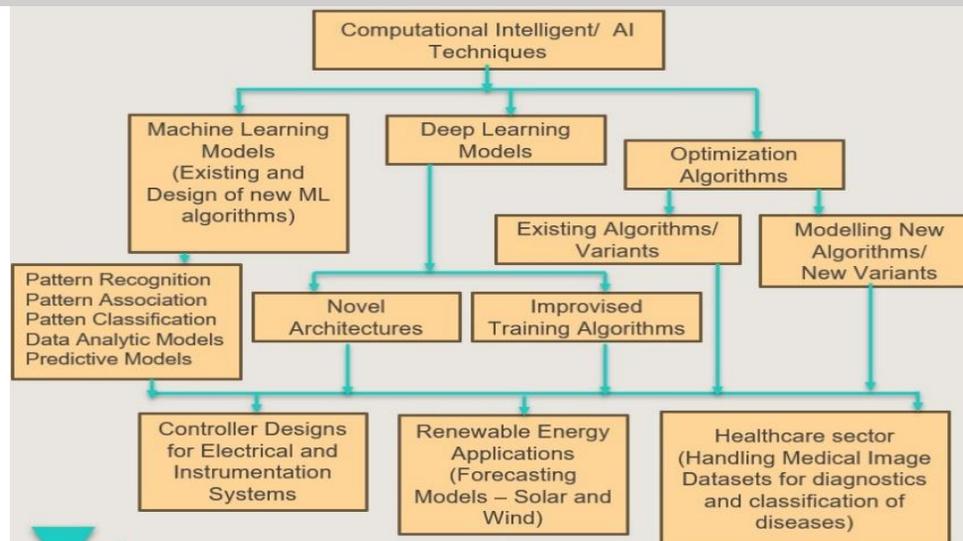
Area of Research:

- Design and Modelling of novel Machine learning (ML) and Deep learning (DL) Techniques
- Applicability of AI/ ML/ DL techniques in Renewable Energy Sector (Wind, Solar and Hydrogen), EV Battery Predictive Maintenance, Healthcare Sector (into medical image processing), Precision Agriculture and Intelligent Controller Designs
- Development of Heuristics Optimization algorithms and applying it in Controller Designs, Renewable Energy and Healthcare domain.

Sponsored Research Projects Ongoing:

- “State-of-the-Art Indigenous Development of Battery Systems and Telematics for Next-Generation Electric Vehicles”, MeitY – MHI EVSS, Project Value – Rs.70.25 Lakhs (2025 – 28)
- “An IOT and Analytics Based Framework of Landslide Forecast and Risk Communication for Himalayan Region of North-East India”, MeitY C2S Call, Project Value – Rs.97.18 Lakhs (2023-28)

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 Qualification : Ph.D. (PSG College of Technology, CBE)
 Designation : Associate Professor
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 Google Scholar ID : <https://scholar.google.com/citations?user=F0aBIR8AAAAJ&hl=en&oi=ao>
 Scopus ID : 9636847300
 ORCID ID : 0000-0003-2150-5051





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering



Name : NIMAL MADHU M.

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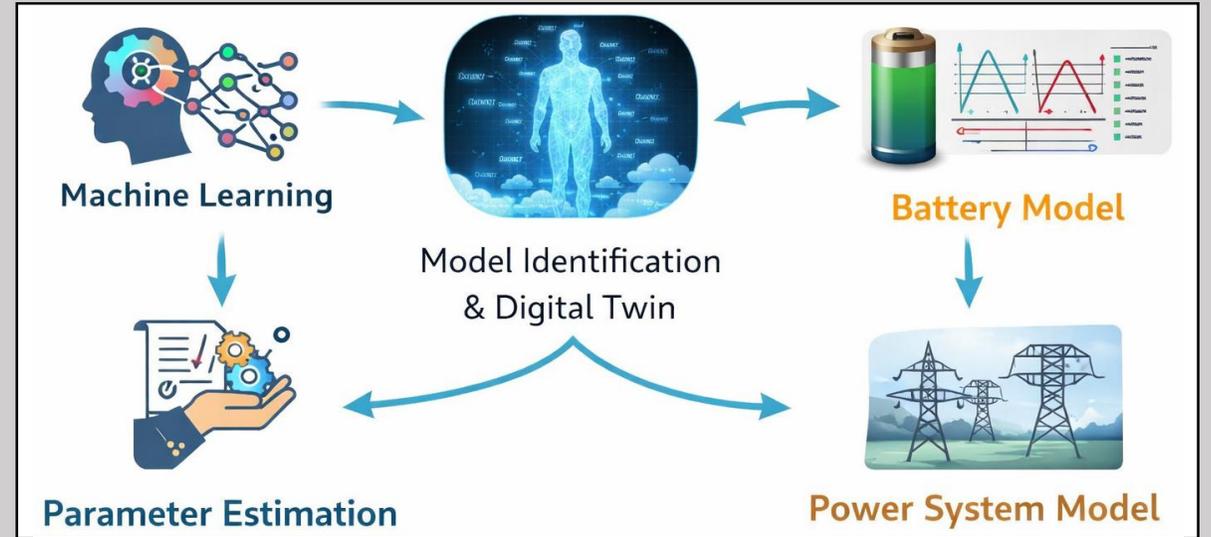
Google Scholar ID : LdwjpcIAAAAJ

Scopus ID : 57090861400

Orcid ID : 0000-0002-5981-2033

Area of Research:

- Data-driven Modelling and Estimation of Storage & Dynamical Systems
- Machine Learning-based Energy Management in Microgrids
- Deep Learning for Target Tracking
- Machine Learning for Dynamic Stability Analysis
- Reinforcement and Machine Learning for Stock Market Analysis





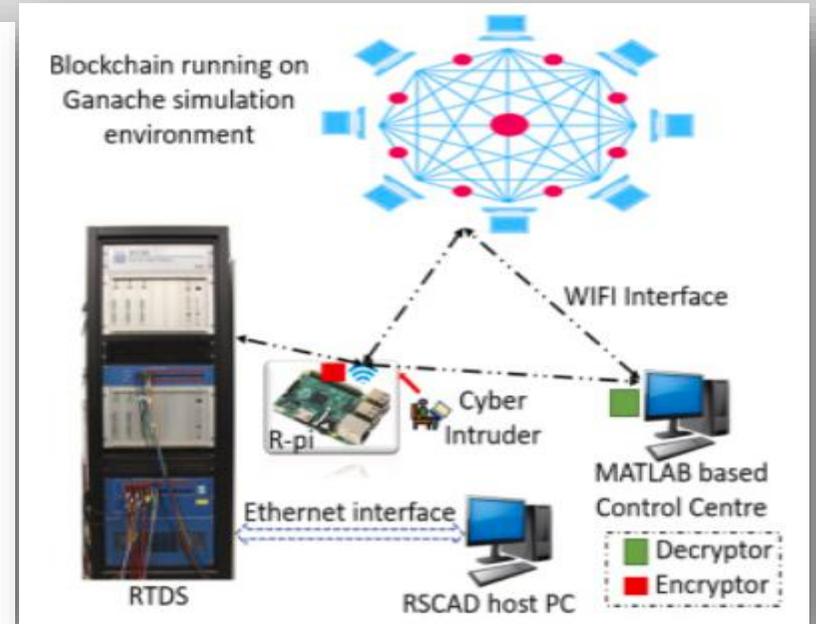
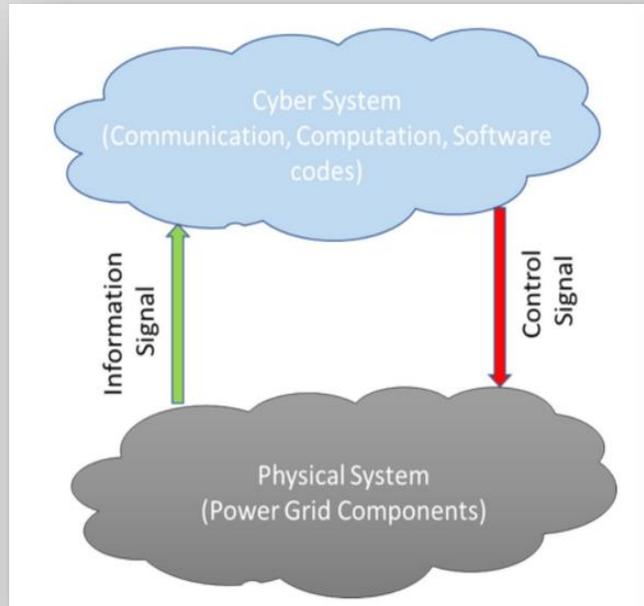
Name : Dr. Devesh Shukla
 Qualification: Ph.D., (IIT (BHU)
 Varanasi)

Area of Research:

- Cyber-Physical Power Systems.
- Integrated Transmission & Distribution System.
- Blockchain and its Application in Power Systems.
- Active Distribution Systems.

- Large-scale renewable grid-integration challenges.
- Application of AI and deep learning for event detection and classification in power systems.
- ATC/ADC assessment and enhancement in Power System.

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 Google Scholar ID: bBH_xCoAAAAJ
 Scopus ID :57197053492
 ORCID ID :0000-0003-4851-6615





Name : Dr. Ashiq Muhammed P E
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Scopus ID :

ORCID ID : 0000-0002-6675-4978

Area of Research:

- Magnetic Design of Power Converters
- High Frequency Planar Magnetic Components
- Condition Monitoring of Power Transformers
- High Frequency Response of Coils
- Finite Element Analysis of Electrical Machines



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering

Area of Research:

- Coordination & Resource Optimal / Resilient Control of Multi Robot/ Multi-agent Systems
- Social intelligence in Robotic systems
- Secured Cyber-Physical Systems:- Modelling & Control, Anomaly detection & Countermeasures.
- Intelligent and adaptive control of nonlinear systems
- Control & Navigation strategies for connected Electric Vehicles
- Learning-based Control
- Intelligent IoT Systems for real-time applications, viz. Wildlife deterrence systems



Name : Ranjith Ravindranathan Nair
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Google Scholar ID : 0l7uesAAAAJ&hl
Scopus ID : 55931888700
ORCID ID : 0000-0002-0673-0448

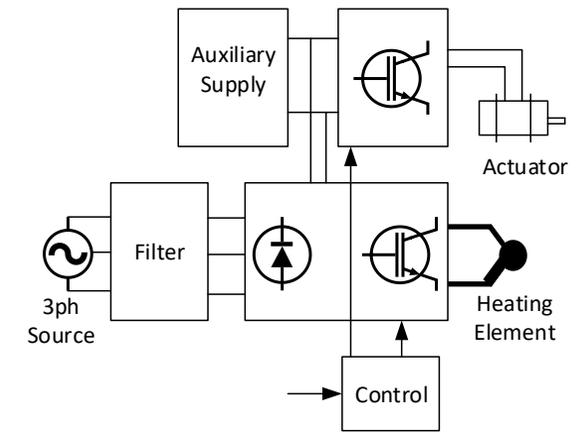


Area of Research:

- Design of Power Electronic Systems
- High gain DC-AC converters
- Ultra sparse matrix converters
- Impedance source matrix converters
- Space Vector modulation techniques for MC

M/s ETA Technology Pvt Ltd

1. IGBT control for their metal gathering machines (Power Electronics area - 50 to 400 KVA)
2. Hydrostatic Linear actuators working at frequencies upto 50Hz.
3. Hydrostatic rotary bearing for both radial and axial load and speed going upto 2500 rpm.



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Google Scholar ID : [Ceup-JEAAAAJ&hl=en](https://scholar.google.com/citations?user=Ceup-JEAAAAJ&hl=en)

Scopus ID : [57191364882](https://scopus.com/authid/detail.uri?https://orcid.org/0000-0002-5597-2929)

ORCID ID : [0000-0002-5597-2929](https://orcid.org/0000-0002-5597-2929)

Key Publications:

- ❑ V. Siva, M. Raghuram, and S. K. Singh. "Stabilized High Voltage Gain With Reduced Common Mode Voltage Using SN-USMC for Remote Green EV Charging." *IEEE Journal of Emerging and Selected Topics in Industrial Electronics* 5, no. 2 (2024): 577-585.
- ❑ M. Raghuram., A. Kumar and S. K. Singh. "Extended range of ultra sparse matrix converter using integrated switched capacitor network." *IEEE Transactions on Industry Applications* 55, no. 5 (2019): 5406-5415.
- ❑ A. Kumar, M. Raghuram, and S. K. Singh. "Nonzero discontinuous inductor current mode in certain Z-source converters." *IEEE Transactions on Power Electronics* 33, no. 4 (2017): 2809-2814.

Area of Research:

SENSOR SYSTEM DESIGN

Design of piezoelectric sensors for liquid viscosity and density sensing, MEMS sensors for biosensing applications, piezoelectric actuators for microfluidic applications, IoT and AI approach for measurement systems.



Name : Dr. Sathiya S

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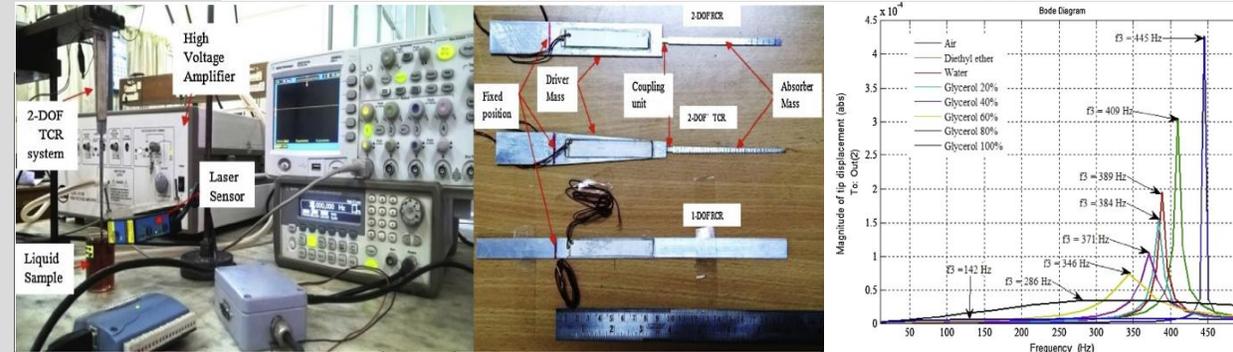
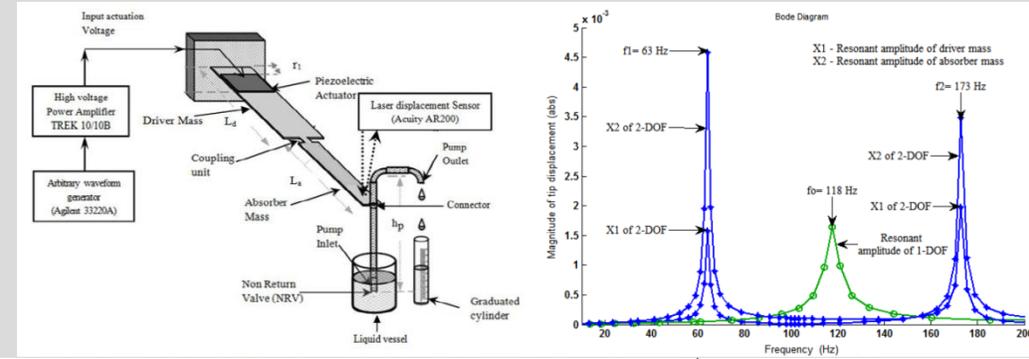
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[engineering/faculty-and-staff/faculty/d346c1fb-9f98-435c-93af-5c26ec893b91](https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/d346c1fb-9f98-435c-93af-5c26ec893b91)

Google Scholar ID : 3BJh3xEAAAAJ

Scopus ID : 55657970900

ORCID ID : 0000-0002-4944-3174





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electrical Engineering

Area of Research:

- State Estimation & Target Tracking
- Tracking and Navigation of Autonomous Vehicles
- Remaining useful-life estimation of energy storage systems
- Process Control
- ML and Deep Learning Methods in Estimation and Process Control



Name : Rahul Radhakrishnan

Qualification : Ph.D. (IIT Patna)

Designation : Assistant Professor

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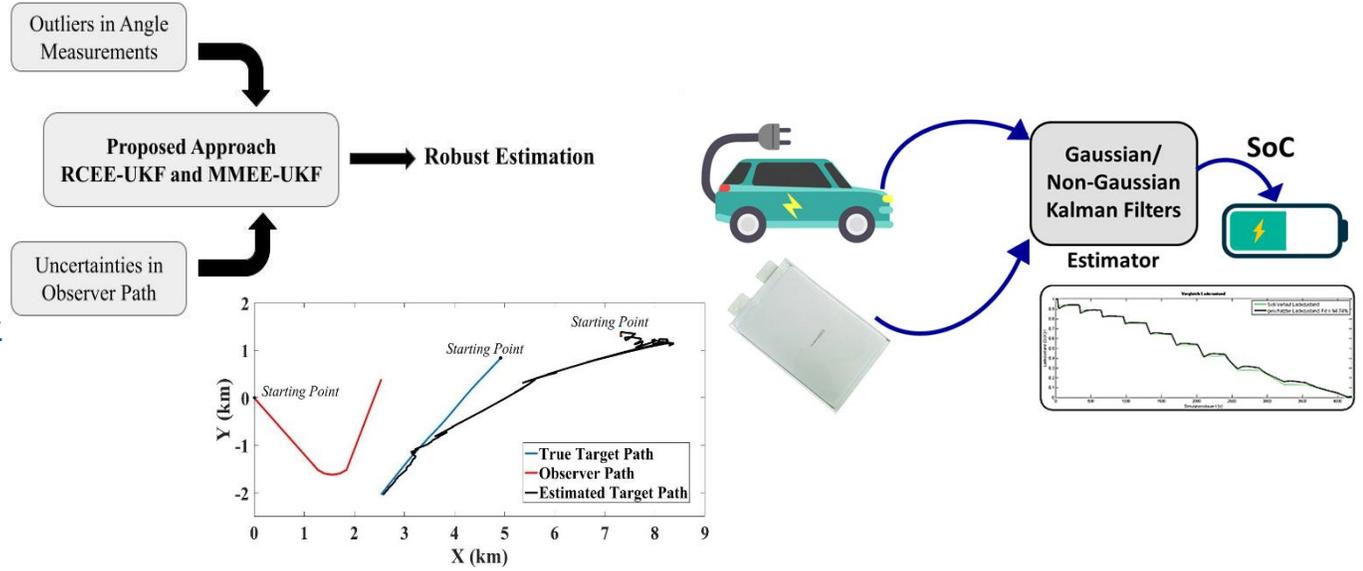
Email : rahulr@nitc.ac.in

Website address : <https://nitc.ac.in/department/electrical-engineering/faculty-and-staff/faculty/6578e531-4695-4656-beb4-6ae6fb52695e>

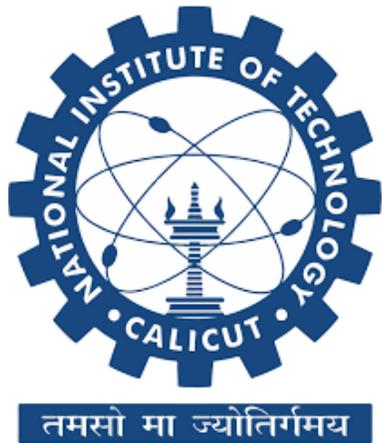
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Scopus ID : 56536114100

ORCID ID : 0000-0001-8818-0525

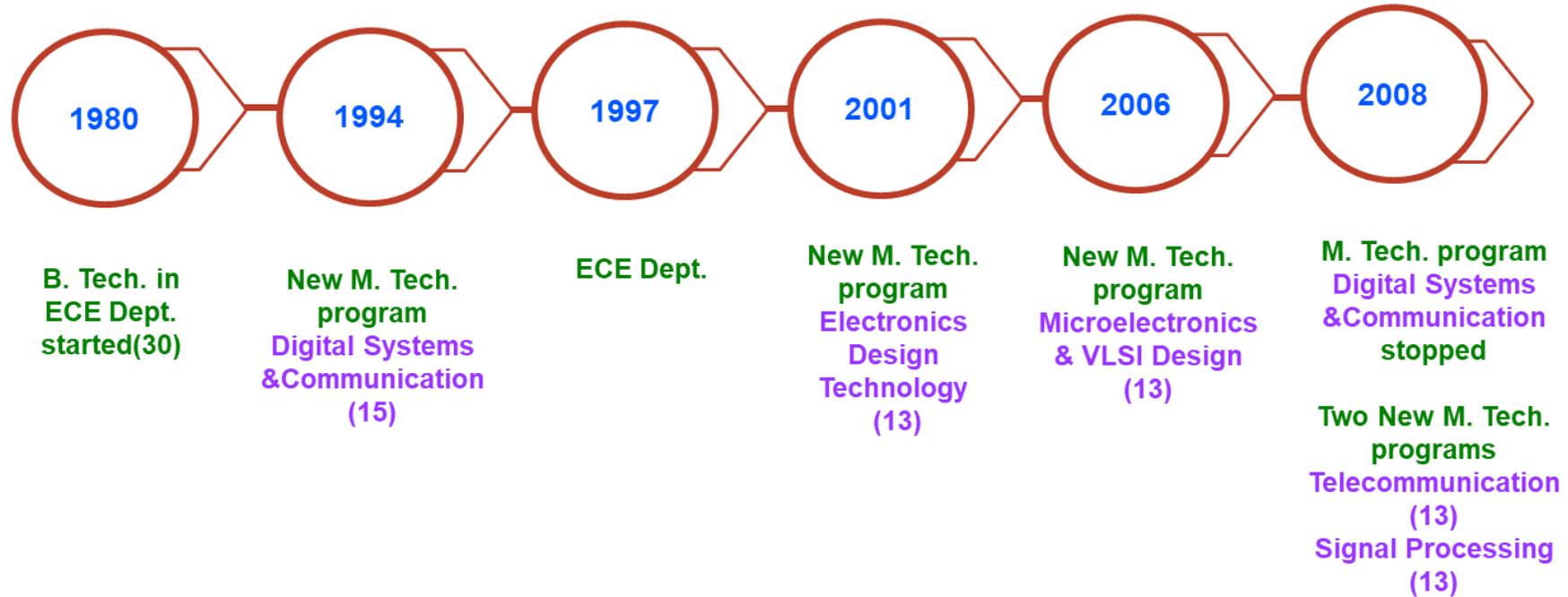


NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Electronic & Communication
Engineering

Timeline of the Growth of ECE Department



LIST OF FACULTY

- [Dr. Jaikumar M.G](#)
- [Dr. P. S. Sathidevi](#)
- [Dr. A. V. Babu](#)
- [Dr. G. Sreelekha](#)
- [Dr. P. P. Deepthi](#)
- [Dr. S. M. Sameer](#)
- [Dr. Dhanaraj K. J.](#)
- [Dr. G. Abhilash](#)
- [Dr. Praveen Sankaran](#)
- [Dr. Sudhish N. George](#)
- [Dr.C.Periasamy](#)
- [Dr.R. Suresh](#)
- [Dr. Ameer P. M.](#)
- [Dr. Anup Aprem](#)
- [Dr. Bindiya T.S](#)
- [Dr. Gopi Krishna Saramekala](#)
- [Dr. Jayakumar E. P.](#)
- [Dr. Lintu Rajan](#)
- [Dr. Raghu C. V.](#)
- [Dr Sudeep P V](#)
- [Dr. Suja. K .J.](#)
- [Dr. V. Sakthivel](#)
- [Dr. Venu Anand](#)
- [Dr. Vinay Joseph](#)
- [Dr. Akhil P T](#)
- [Dr. Ashutosh Mishra](#)
- [Dr. Aswathi R. Nair](#)
- [Dr. B. Bhuvan](#)
- [Dr. Chithira P R](#)
- [Dr. Gaurav Siddharth](#)
- [Dr. Jailsingh Bhookya](#)
- [Dr. Lalit Kumar](#)
- [Dr. M. Surya Prakash](#)
- [Dr. Nikhil Kumar C.S](#)
- [Dr. Nujoom Sageer Karat](#)
- [Dr. Rakesh R. T.](#)
- [Dr. Srinivasarao](#)
- [Chintagunta](#)
- [Dr. Waquar Ahmad](#)
- [Dr. Sanjay Viswanath](#)
- [Dr. Jagadeesh V. K.](#)
- [Dr. Arjunan M S](#)
- [Dr. G. Narendra](#)
[Kumar](#)
- [Reddy](#)
- [Dr. Saikat Ch. Bakshi](#)
- [Dr. Debjani Goswami](#)
- [Dr. Abhishek Mondal](#)
- [Dr. Stacy Anastacia](#)
[Lynrah](#)
- [Dr.Karthik R](#)
- [Dr. Nithin V. Sabu](#)



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Google Scholar ID:

Scopus ID :

Orcid ID :

Area of Research:

Semiconductor Devices : Modelling and Fabrication, Power Semiconductor Devices, SiC Power MOSFETs

Graphical representation of your Work

Graphical representation of your Work

Graphical representation of your Work



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication

Area of Research:



Name: Dr. P. S. Sathidevi

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- Speech and Audio Processing, Biomedical Signal Processing, Wavelets, Cryptography

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Google Scholar ID :
<https://scholar.google.com/citations?user=xTU9ejUAAAAJ&hl=en>

Scopus ID :

Orcid ID : 0000-0003-3839-9910



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



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Designation : Professor

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Email : babu@nitc.ac.in

Website address :
https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=babu

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Wireless Communications, Communication Networks, Mobile Computing, Cognitive Radio, Full Duplex, High Data Rate Wireless LAN, Heterogenous Networks, NOMA, IoT



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics and Communication Engineering



Name : Dr. G Sreelekha

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Website address :

<https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/bb4f8fa4-c8cf-413f-a2d9-f3d73cd76b22>

Google Scholar ID : JFcAJp_UAAAAJ

Scopus ID : 23986235600

Orcid ID : 0000-0002-7943-2812

Area of Research:

Image & Video Compression, Biomedical Signal Processing, Image Processing, Machine Learning, Computer Vision and Deep Learning.

Current research works includes:

- Retinal Image analysis using various imaging modalities like Fundus images, Optical Coherence Tomographic (OCT) images and OCT Angiography (OCTA) images to identify various retinal and neurodegenerative diseases.
- Breast Cancer Detection
- Brain Computer Interface



Name : Dr. Deepthi P.

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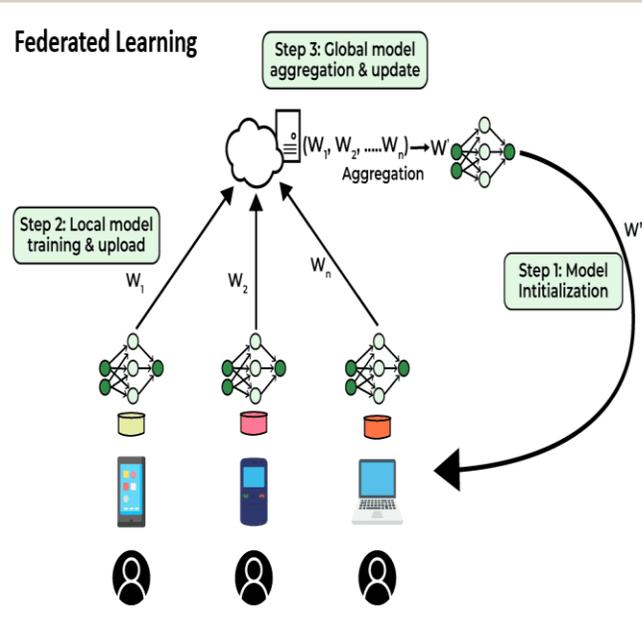
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Scopus ID : 59520197100

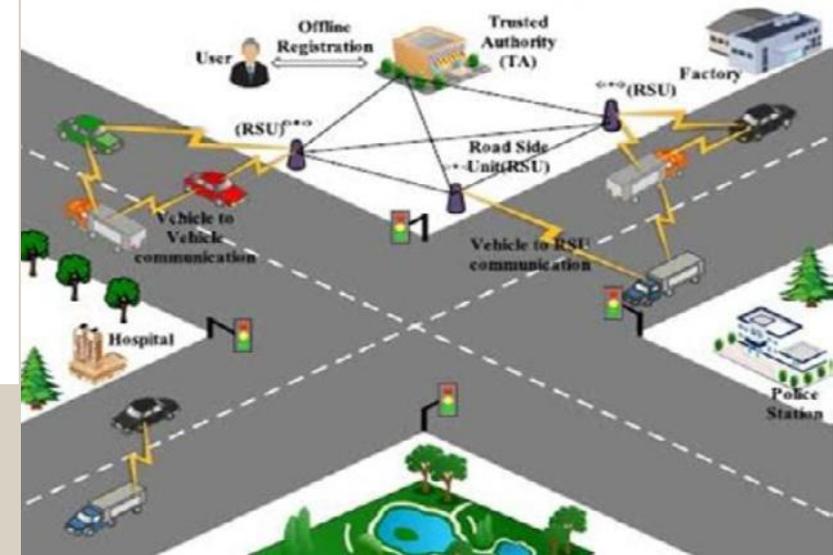
Orcid ID : 0000-0003-2295-7455

Area of Research:

Communication, Signal Processing, Federated Learning, Channel Coding, Index Coding, Cryptography, Multimedia Security, Secure Signal Processing, Coding for Machine Learning



Efficient Communication Techniques for VANETS





Name: Dr. S. M. Sameer

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Scopus ID : [24475436500](https://orcid.org/0000-0002-1685-7936)

Orcid ID : 0000-0002-1685-7936

Area of Research:

- Estimation Theory, 5G and 6G Wireless Communication Systems





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department:



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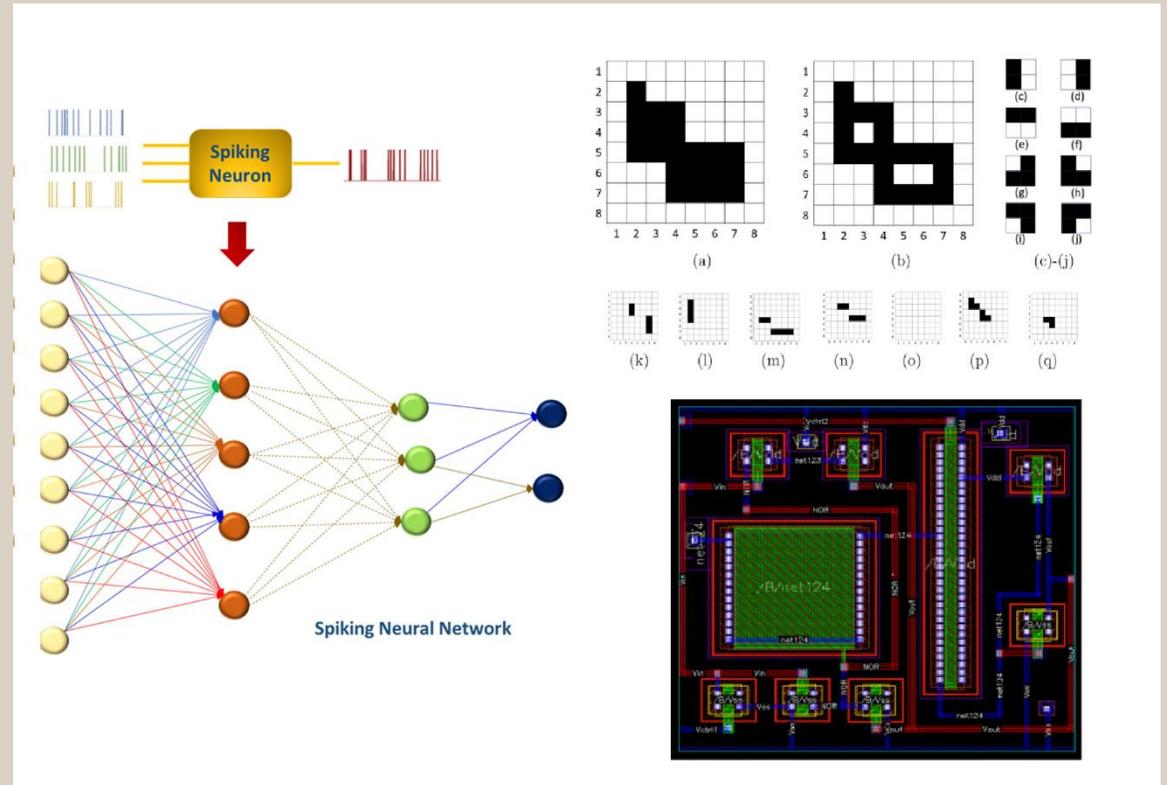
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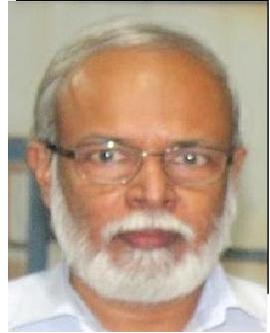
Scopus ID : 23984571600

Orcid ID : 0000-0002-2127-361X

Area of Research:

Low Power Analog IC Design, Sensor Interfacing Circuits, Hardware Accelerators for Neural Networks, VLSI Architectures for Signal Processing and Neuromorphic Computing





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Designation : Associate Professor

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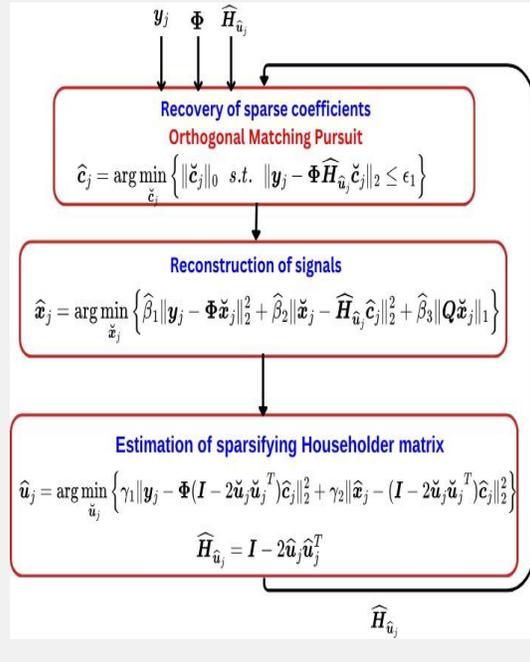
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Orcid ID :0000-0002-9365-4403

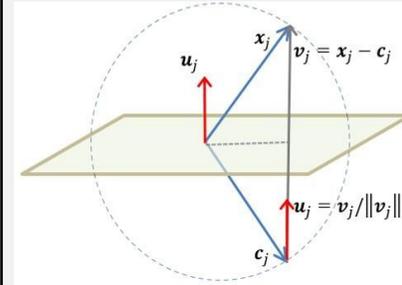
Area of Research:

- Signal reconstruction from their blind compressed measurements using Householder transforms

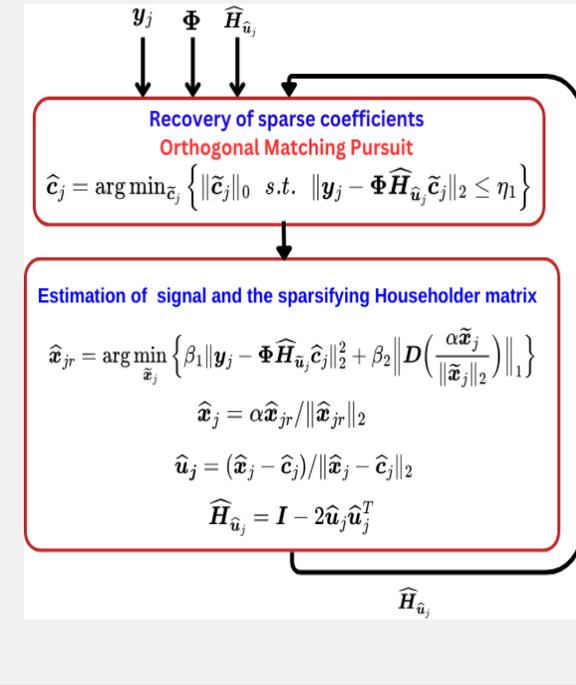
Stages of algorithm for separate estimation of the signal and the sparsifying Householder Transform

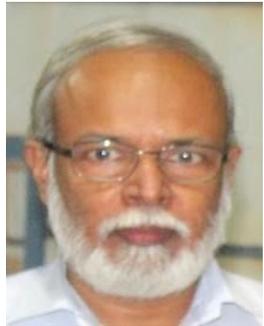


Householder transformation of a vector x_j .



Stages of algorithm for joint estimation of the signal and the sparsifying Householder Transform





Name : G Abhilash, PhD

Qualification : PhD (IISc)

Designation : Associate Professor

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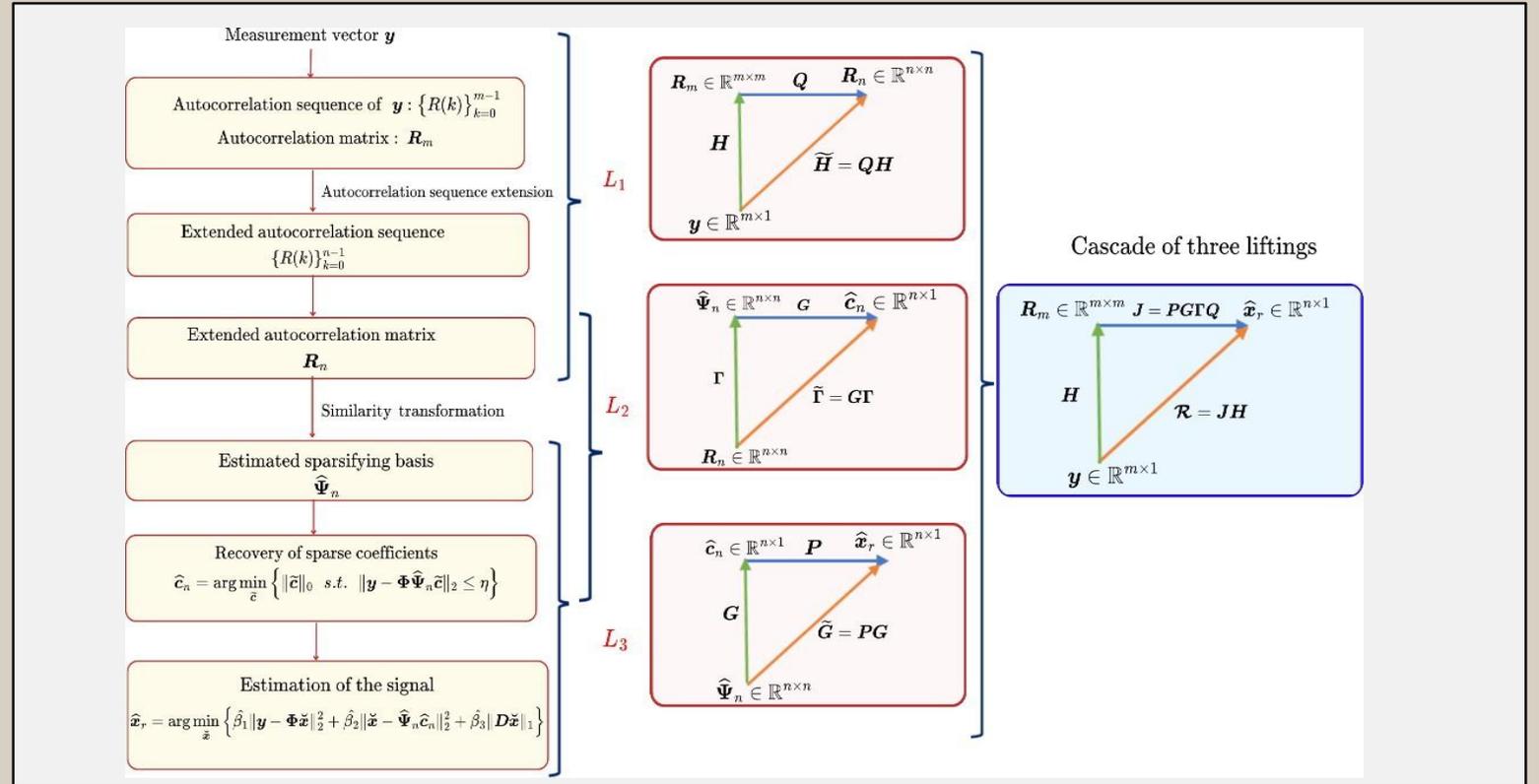
<https://scholar.google.com/citations?user=9oN314AAAAAJ>

Scopus ID :

Orcid ID : 0000-0002-9365-4403

Area of Research:

- Signal reconstruction from their blind compressed measurements using consistent extension of autocorrelation sequence



V. Narayanan and G. Abhilash, "Reconstructing signals from their blind compressed measurements through consistent extension of autocorrelation sequence", *Digital Signal Processing*, Elsevier, vol. 164, Article No. 105262, April 2025.



Name: Dr. Praveen Sankaran

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Google Scholar ID
: https://scholar.google.com/citations?user=lf_K7K0AAAAJ&hl=en

Scopus ID :

Orcid ID :

Area of Research:

- Statistical pattern analysis, Computer Vision, Medical Image Analysis, Drone Analytics



Name: Dr. Sudhish N. George

Qualification: Ph.D., (NIT Calicut)

Designation : Associate Professor

Contact Number : 0495-2286716, 9446204157,
7025510787

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Website address :
https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=sudhish

Google Scholar ID :
<https://scholar.google.com/citations?user=DxUoID0AAAAJ&hl=en>

Scopus ID : 55247082500

Orcid ID : 0000-0002-0886-9478

Area of Research:

- Machine Learning, Image Processing, Computer Vision, Deep Learning, Medical Image Analysis

Development of Machine Learning/Deep Learning Models:

- Video Recovery & Analysis
- Restoration of Medical Images
- Image/Video Super Resolution
- Moving Object Detection
- Image/Video Super Deweathering
- Subspace Clustering & Applications
- Human Action Analysis
- Spectral Image Analysis for Horticultural Products
- Wireless Capsule Endoscopy Data Analysis
- Robotic Surgery
- Coronary Angiograms Analysis

Area of Research: MEMS and Bio-Sensor



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Designation : Associate Professor

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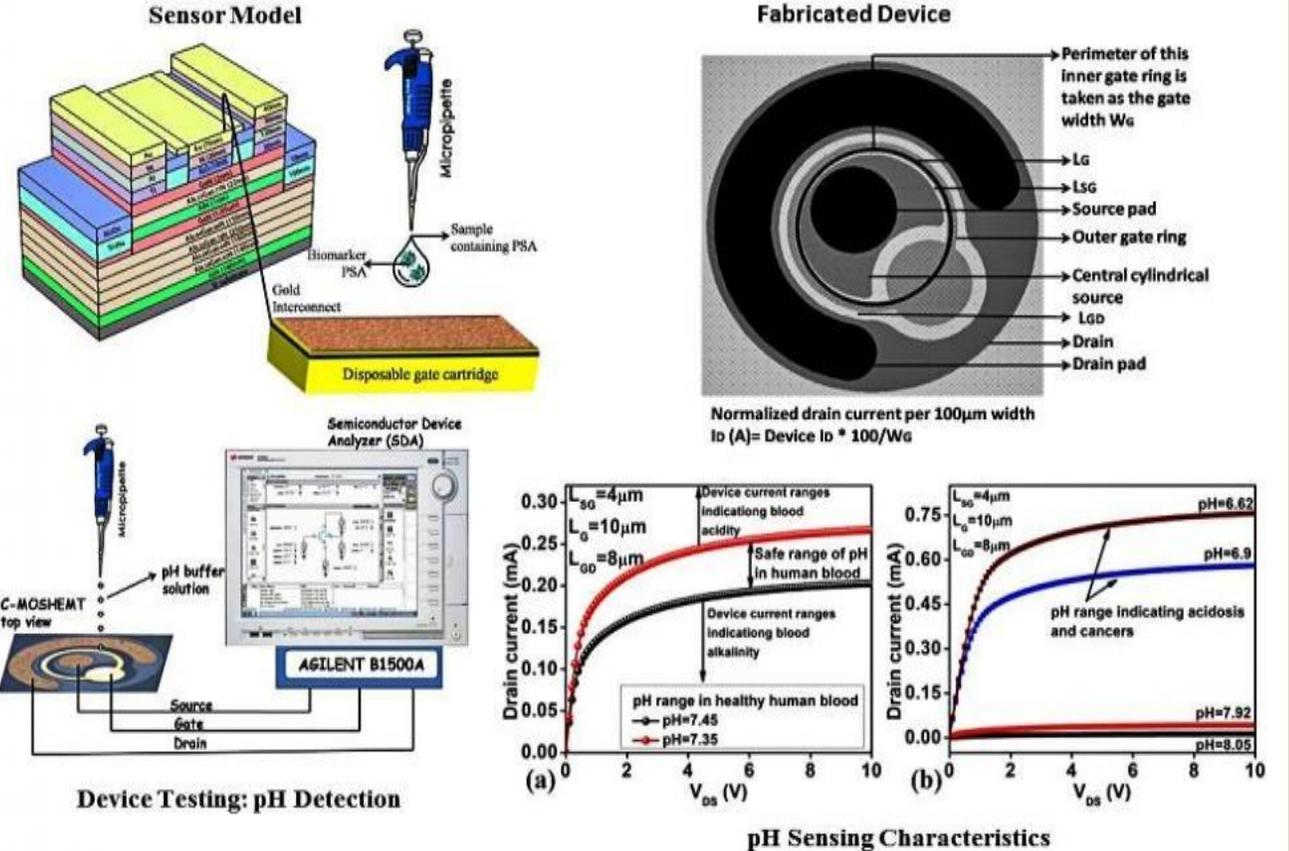
Website address :
https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=cperiasamy

Google Scholar ID
 :<https://scholar.google.co.in/citations?user=7fsLzOwAAAAJ&hl=en>

Scopus ID :56685179600

Orcid ID :<https://orcid.org/0000-0002-1992-804X>

HEMT Bio-sensors





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Electronics and Communication Engineering



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication

Area of Research:



Name: Dr. Ameer P. M.

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Google Scholar ID :

Scopus ID :

Orcid ID :

- Wireless Networks, Signal Processing, Machine Learning, Image Processing



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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Department: Electronics & Communication



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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Statistical Signal Processing and Bayesian Machine Learning



Name : Bindiya T. S.

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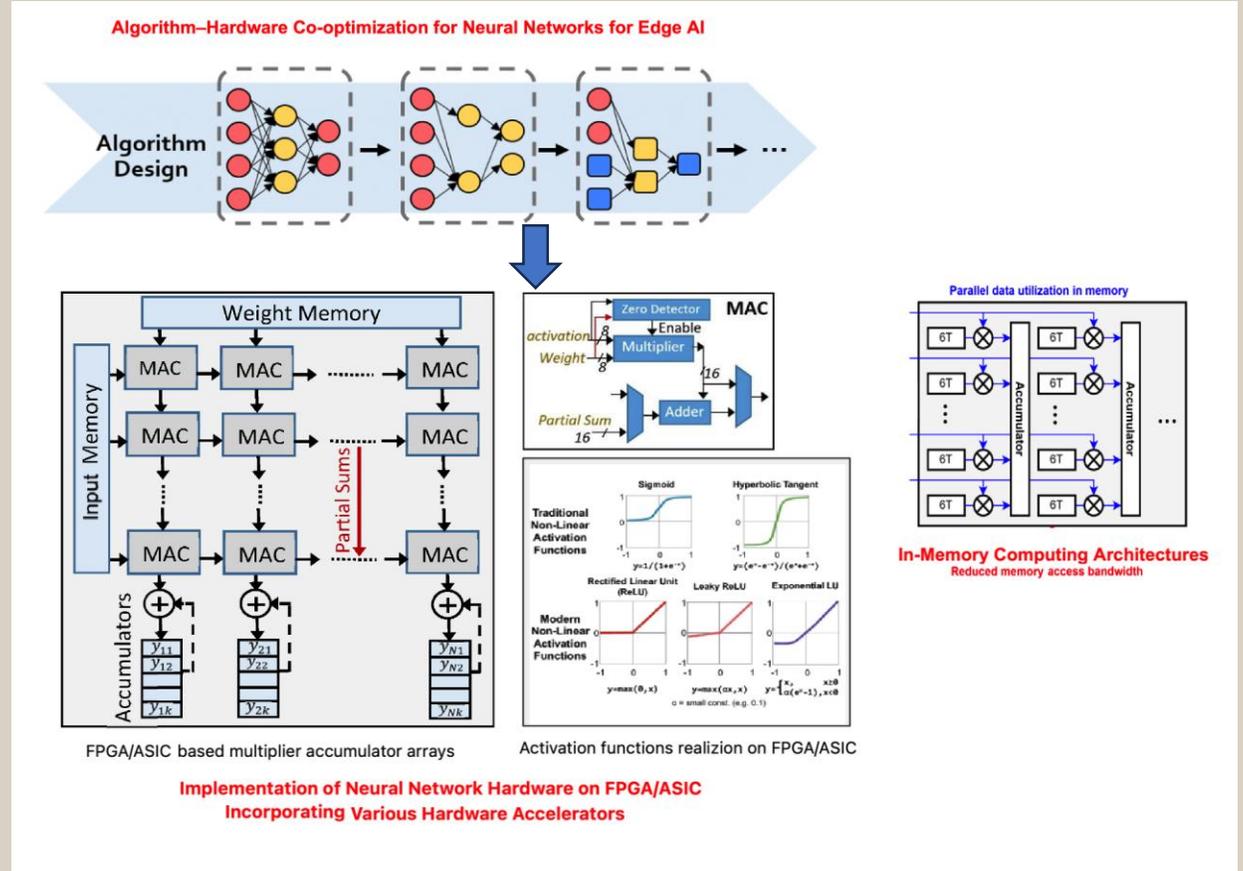
Google Scholar ID : f1hKW1wAAAAJ

Scopus ID : 55912381300

Orcid ID : 0000-0002-8406-1833

Area of Research:

Hardware Accelerators for Edge AI, Neuromorphic Computing, In-Memory Computing, Digital VLSI Circuits/Systems, DSP Algorithms/Architectures



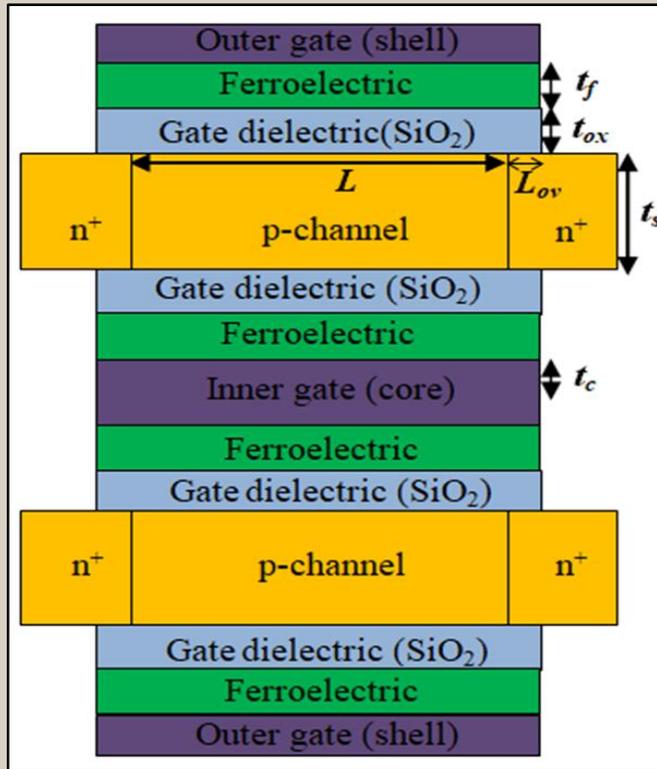


Name: Dr. Gopi Krishna Saramekala
 Qualification: Ph.D., (NIT Rourkela)

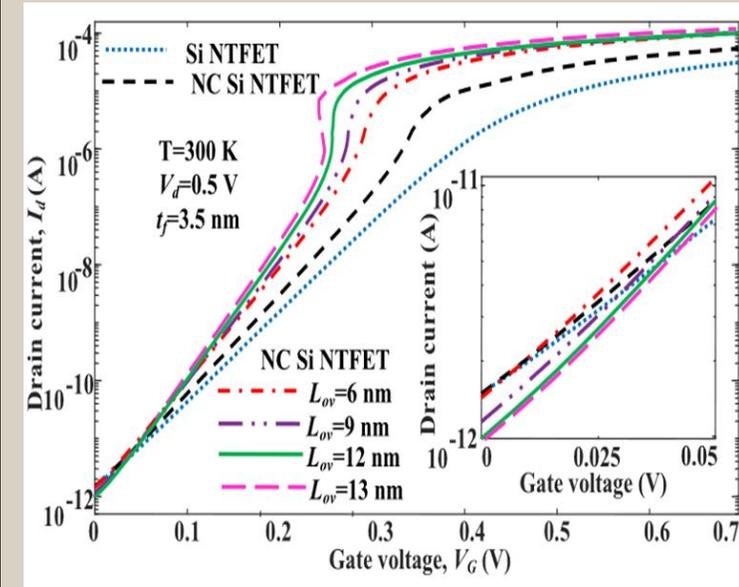
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 Google Scholar ID: <https://scholar.google.com/citations?hl=en&authuser=2&ser=aqPF-owAAAAJ>
 Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=55777259100>
 Orcid ID : <https://orcid.org/0000-0003-0608-843X>

Area of Research:

- Modeling, Simulation and Fabrication of Semiconductor Devices, Machine Learning for Semiconductor Devices, Steep-slope devices.



Cross-sectional view of Negative Capacitance Si Nanotube FET



Transfer characteristics of Negative Capacitance Si Nanotube FET



Name: Dr. Jayakumar E. P.

Qualification: Ph.D., (NIT Calicut)

Designation : Assistant Professor Grade I

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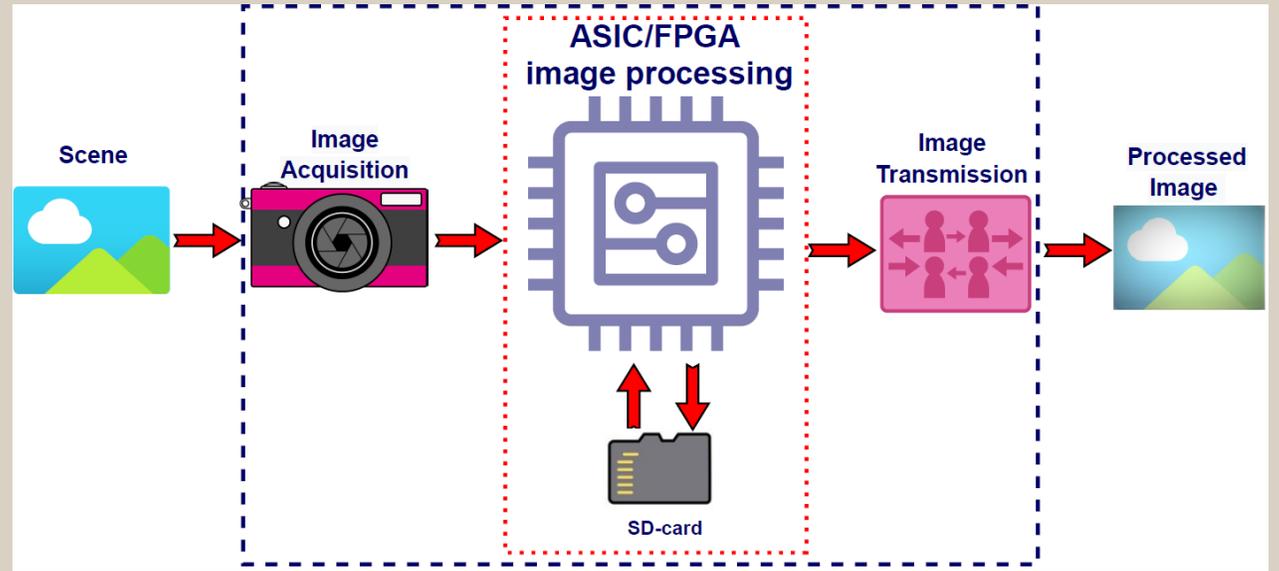
Google Scholar ID :
<https://scholar.google.com/citations?user=M4kWa9QA-AAJ&hl=en>

Scopus ID :

Orcid ID :0000-0002-6692-8720

Area of Research:

- VLSI Architecture for Digital Image Processing, ASIC/FPGA implementation, Hybrid CPU-FPGA Accelerators, Speech and Audio Processing,





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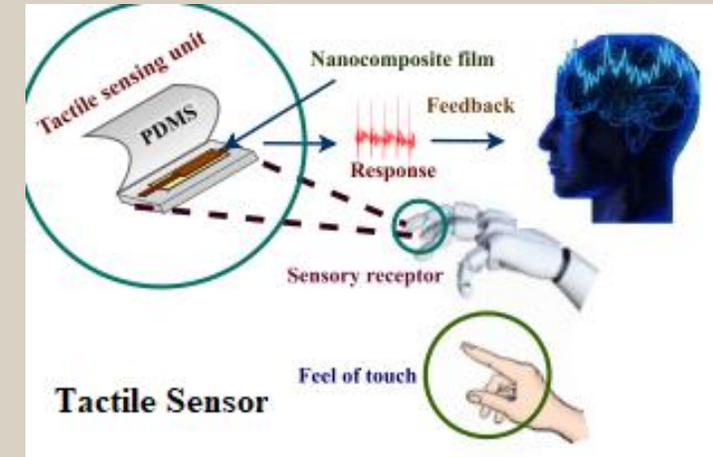
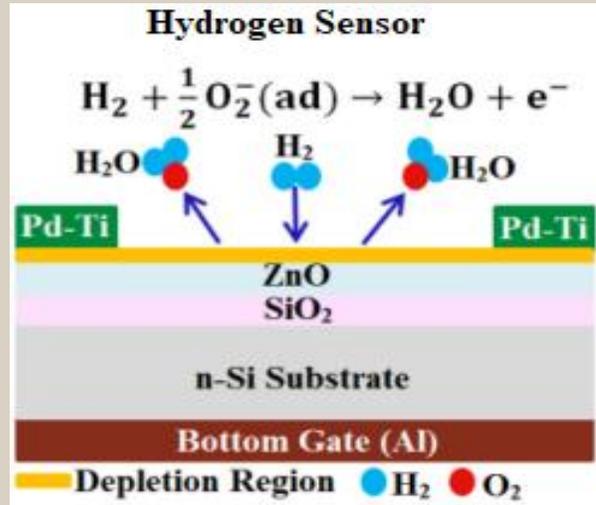
Google Scholar ID:
<https://scholar.google.com/citations?user=gHJ04-cAAAAJ&hl=en&oi=ao>

Scopus ID :6603745762

Orcid ID :<https://orcid.org/0000-0003-2956-7425>

Area of Research:

- Semiconductor device fabrication and modelling, Gas sensors, Sensors, Thin films, Nanotechnology, MEMS, Machine learning for device optimization, Bio-Sensors





Name: Dr. Raghu C. V.

Qualification: Ph.D., (IISc)

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Google Scholar :
https://scholar.google.com/citations?hl=en&user=XhrtjGcA AAAJ&view_op=list_works&sortby=pubdate

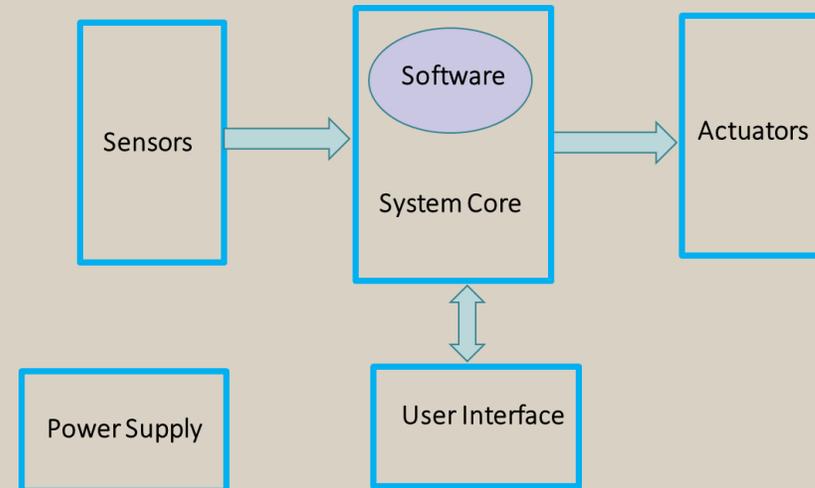
Scopus ID 44861611100:

Area of Research:

- Electronic System Design, Embedded Systems, Control Systems, Electronic Circuits , Electromagnetic Compatibility

Other Expertise:

- Microcontrollers and microprocessors, Schematics and PCB design





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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Google Scholar ID : 55603190900

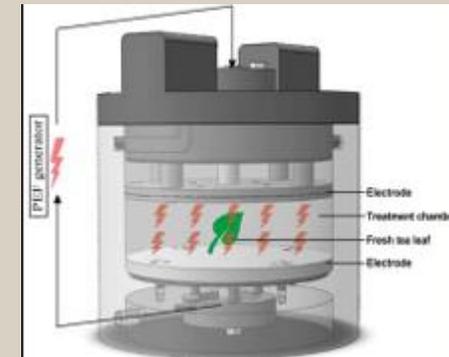
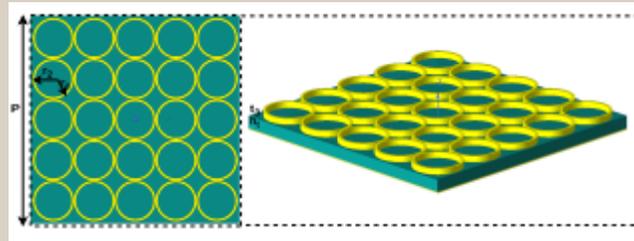
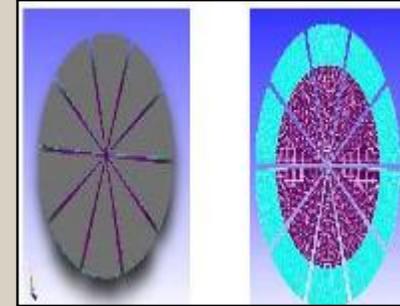
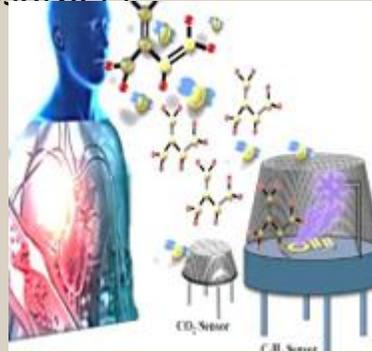
Scopus ID : TFEEkkQAAAAJ

OrcidID : <https://orcid.org/0000-0003>

1158-2977

Area of Research:

Micro/Nanoelectronics, MEMS, Modeling and Simulation of MEMS/Nano Sensors/Application of pulsed electric field, Metamaterials, Electromagnetic Absorbers





Name : Dr. Sudeep P V

Qualification : Ph.D., (NIT Trichy)

Designation : Assistant Professor Grade I

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Email : sudeep.pv@nitc.ac.in

Website address : <https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/8142dcc1-3de8-40c4-a0c6-ef87b8c6753d>

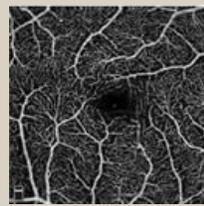
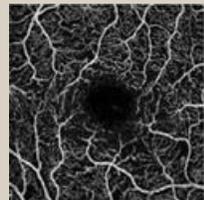
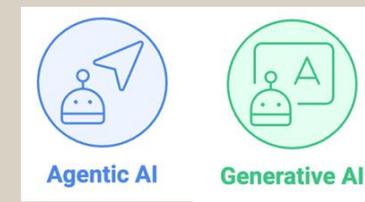
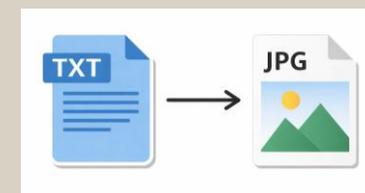
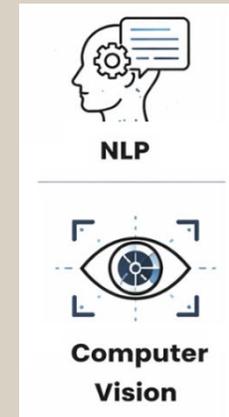
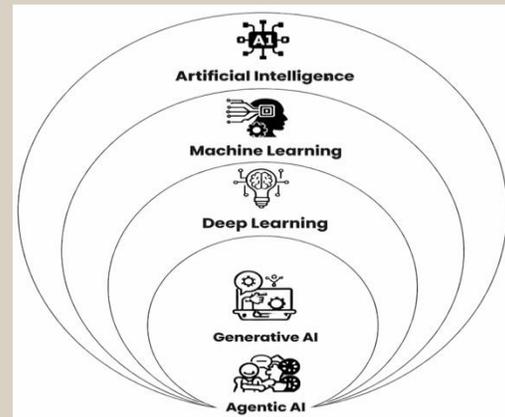
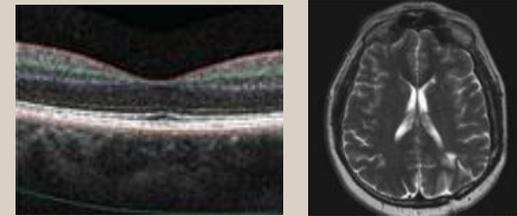
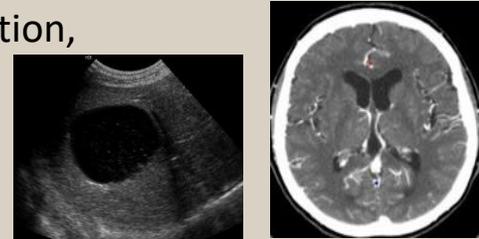
Google Scholar ID: Uh4SLT8AAAAJ

Scopus ID : 37862221600

Orcid ID : 0000-0002-6738-7786

Area of Research:

- Image Enhancement, Super-resolution, Segmentation, Classification, Object Detection, T2I Generation, Image Captioning.
- Medical Imaging Modalities: CT, MRI, OCT, Ultrasound.
- AI & ML: ML, DL, Generative AI, Agentic AI





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication

Area of Research:



Name: Dr. V. Sakthivel

Qualification: Ph.D., (NIT Calicut)

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Google Scholar ID :

Scopus ID :

Orcid ID :

- Digital Signal Processing, Multirate Filter Banks



Area of Research:

- Microelectronics, Electronic Instrumentation, Soft Robotics



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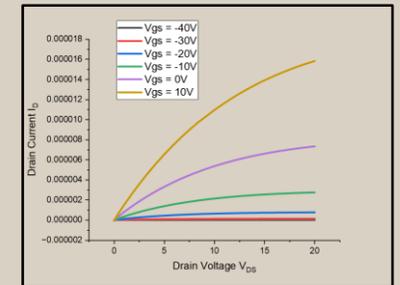
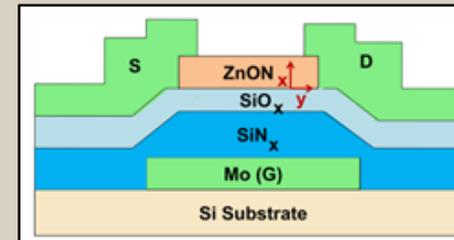
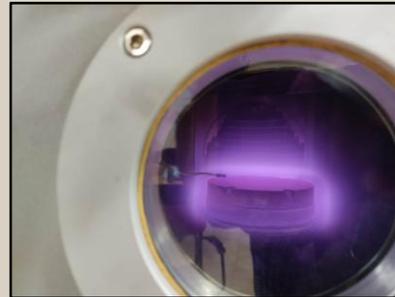
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Google Scholar ID :

Scopus ID :

Orcid ID :





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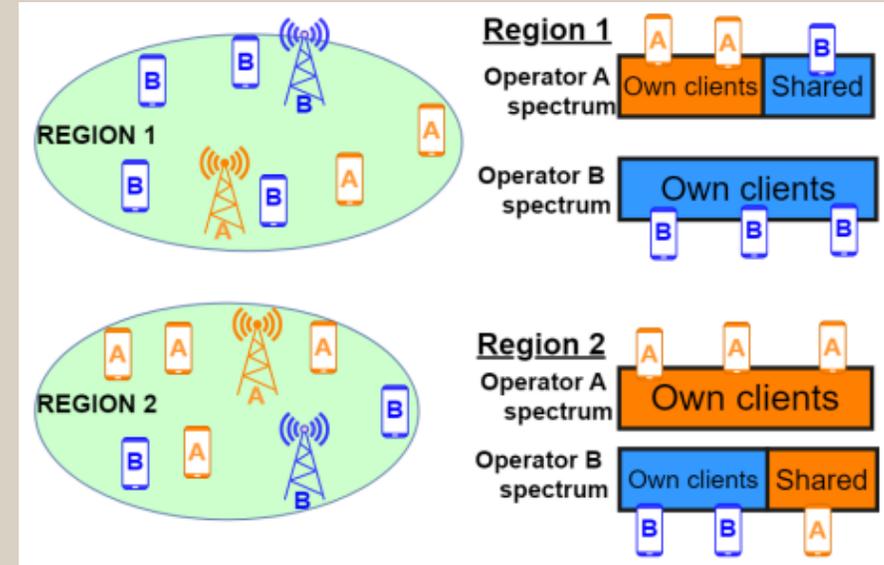
Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Resource allocation in communication networks, Stochastic optimization, 5G: Upper layers and standardization





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



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Website address
: https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=akhil

Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Optimization, control and learning in networks



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- VLSI Architecture Design, Image Processing, Medical Image Analysis, Multimedia Signal Processing, and Digital IC Design.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Semiconductor devices - modeling and fabrication; Neuromorphic devices; Flexible and wearable electronics



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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Google Scholar ID :

Scopus ID :

Orcid ID :<https://orcid.org/0000-0003-0854-8997>

Area of Research:

- Integrated circuit design and CMOS image sensors
- Use a graphical representation describing your research(one or two images), if interested.



Name: Dr. Chithira P R

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Designation :Assistant Professor Grade II

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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Statistical Timing Analysis
- Digital circuit design

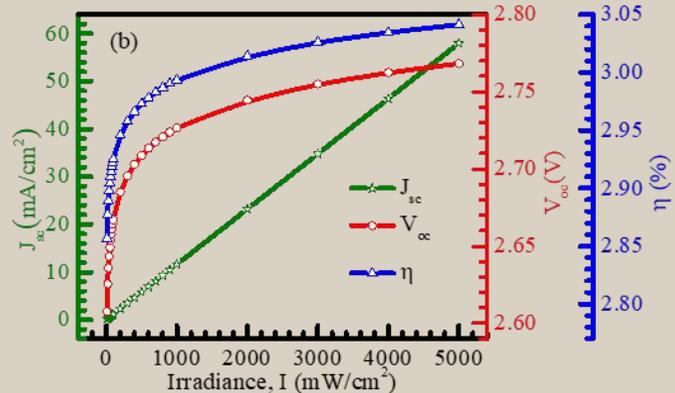
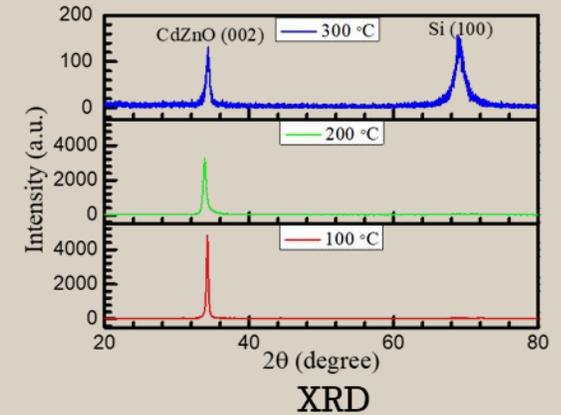
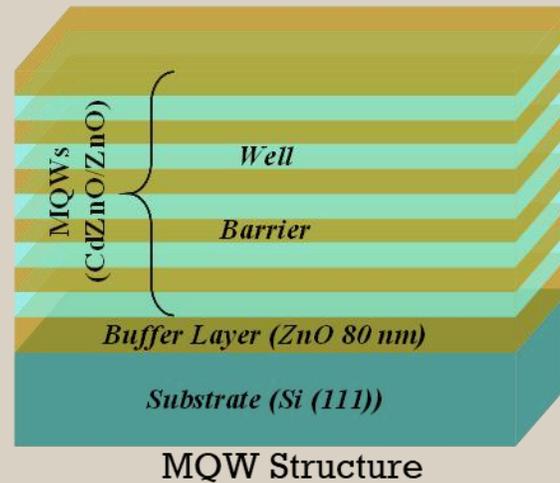


Name: Dr. Gaurav Siddharth
 Qualification: Ph.D.

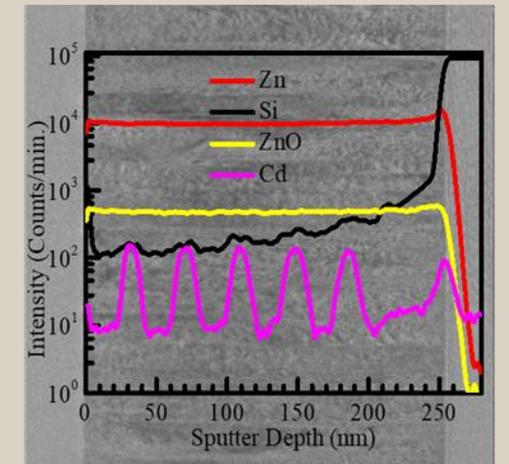
Designation : Assistant Professor Grade II
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 Website address : https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=gaurav
 Google Scholar ID : <https://scholar.google.co.in/citations?user=PL-SAJYAAAAJ&hl=en>
 Scopus ID : [Siddharth, Gaurav - Author details - Scopus](#)
 Orcid ID : <https://orcid.org/0000-0002-2482-2899>
 Personal Website : <https://gsidd90.wixsite.com/bmdr>

Area of Research:

- Photovoltaics, Photodetector, Nanoelectronics devices



Performance parameters of MQWSC



SIMS coupled with HRTEM



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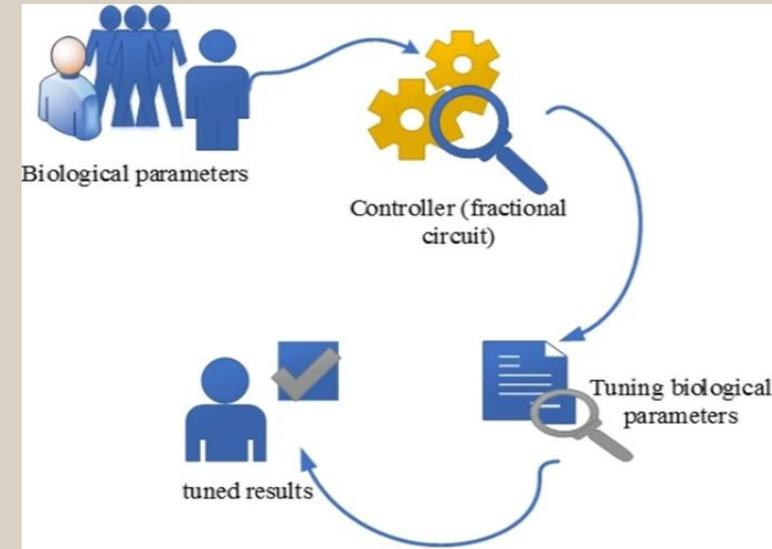
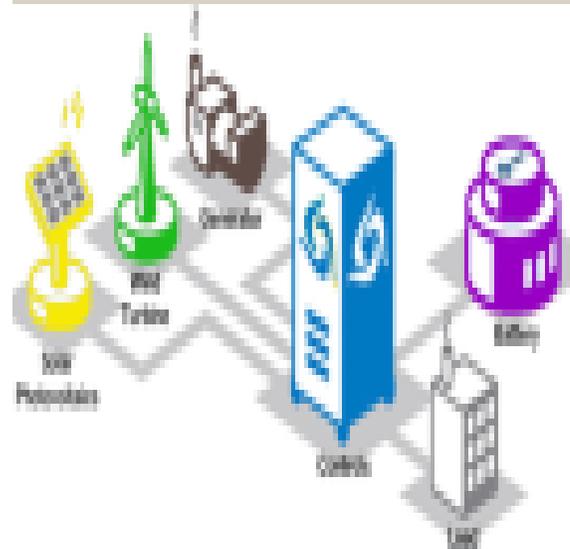
Google Scholar ID :
<https://scholar.google.com/citations?user=hxdWg9YAAAAJ&hl=en&oi=ao>

Scopus ID : [Bhookya, Jailsingh - Author details - Scopus Preview](#)

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Area of Research:

- Electronic System Design and Control, Internet of Things.
- Automatic recognition of road asphalt, cracks and condition assessment system for Android-based devices using IoT technology in Smart Cities.





Name: Dr. Lalit Kumar

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Website address

: https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=lalit

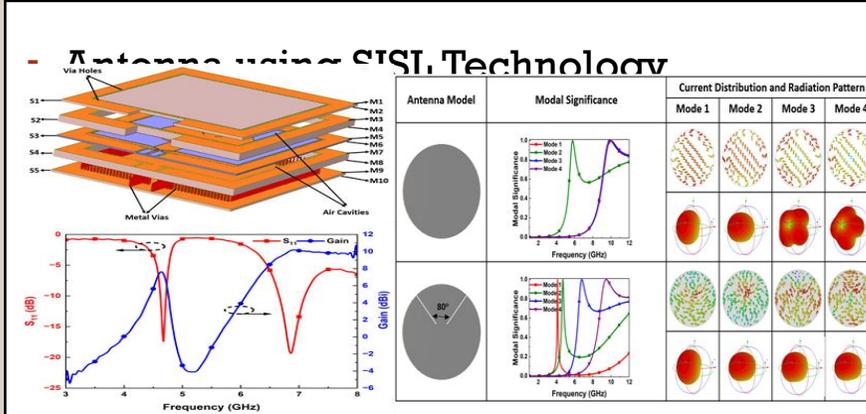
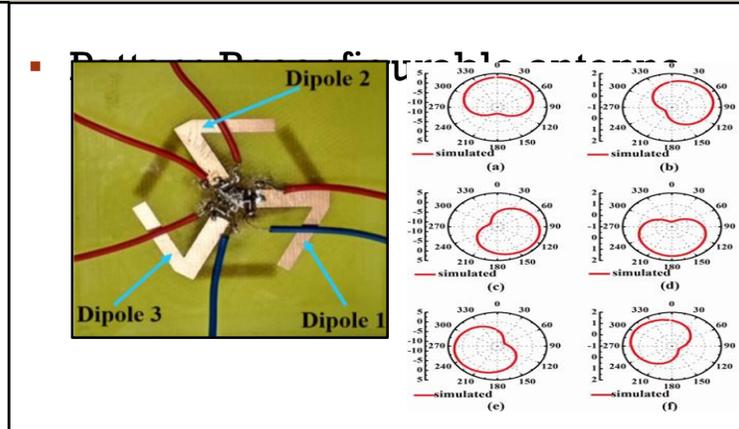
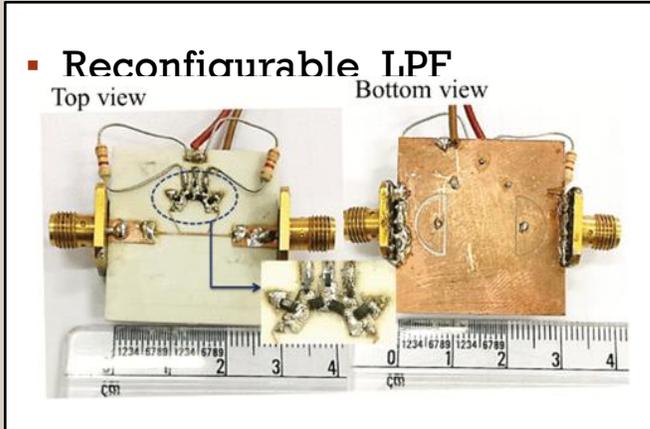
Google Scholar ID: [Dr. Lalit Kumar - Google Scholar](#)

Scopus ID : 57209162685

Orcid ID : <https://orcid.org/0000-0002->

Area of Research:

- RF/ Microwave Reconfigurable Filters and Antenna, Microwave and millimeter-wave devices characterization, and other microwave passive circuits



Simulation Facilities:

- CST, HFSS, and ADS

Measurements Facilities:

- R & S VNA (0-40 GHz)



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



Name: Dr. M. Surya Prakash

Qualification: Ph.D., (IIT

Designation :Assistant Professor Grade II

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Website address
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Google Scholar ID :

Scopus ID :

Orcid ID :

Area of Research:

- Signal Processing algorithms and VLSI Architectures, VLSI for communications and multimedia, VLSI with Artificial Intelligence, ASIC design, Experimental Neuroscience, Electronic Aspects of Neuroscience.



Name : Dr. Nikhil Kumar C S

Qualification : M.S., Ph.D.(IIT

Postdocs(IIT Bombay, ISQI AMU Poland

Designation :Assistant Professor(Grade -II, AGP 7000),

Contact Number: +919445874064

Email : nikhilkumarcs@nitc.ac.in

Website address : [Faculty Website](#) [Google-Link](#)

Google Scholar ID: [Google-Link](#)

Scopus ID : 57214110116

Orcid ID :<https://orcid.org/0000-0003-3213-505X>

Area of Research: **Electronics and Communications, RF and Microwaves, Magnonics, Spintronics, Cavity Magnonics, Photonics, Quantum Technologies, Quantum Sensing and Metrology using Spin Devices**

- Principal Investigator(PI-II)- ARDB, DRDO Project-Electromagnetic Shielding
- Research Collaborations with IIT Madras, IIT Bombay, IIT Delhi, IIT Palakkad, DRDO, ISRO, with ISQI AMU, Poznan, Poland. CMC Microsystems Canada, UNESCO ICTP UCL A on Quantum Technologies

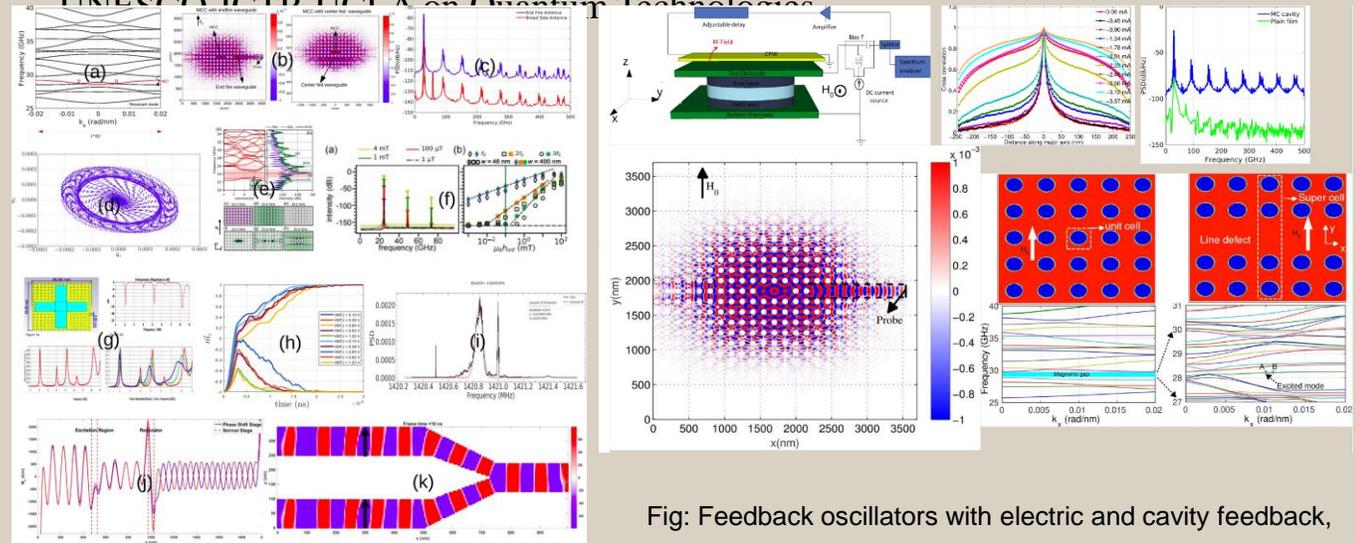


Fig: Feedback oscillators with electric and cavity feedback, a promising platform for Quantum Bit control

Fig: (a-g)-RF & Microwave Sensor design(h)-VCMA MTJ(i)- 21 cm wavelength detection in the atmosphere,(j-k)-Magnonic Phase shifters



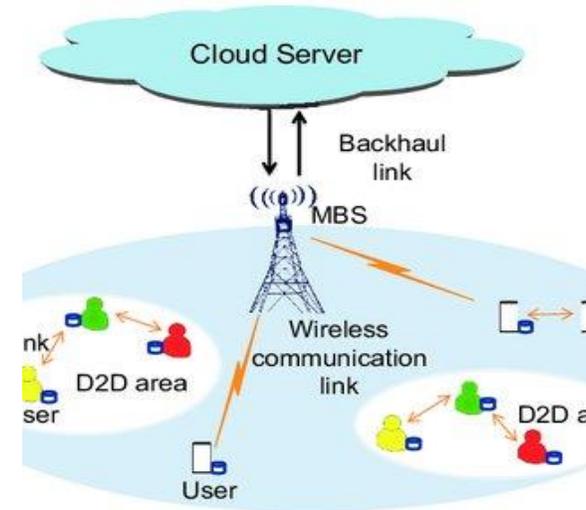
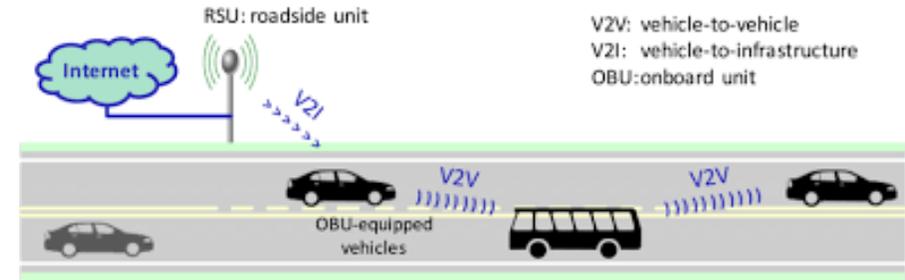
നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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 Qualification : Ph.D., IISc Bangalore
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 Website address : <https://sites.google.com/view/nujoomsageerkarat/home>
 Google Scholar ID : <https://scholar.google.com/citations?user=sL-68lcAAAAJ&hl=en>
 Scopus ID : 57194345159
 ORCID ID : 0000-0002-9143-989X

Electronics and communication

Area of Research: Coding Theory and Applications: Wired & wireless network coding, Index Coding, Coded Caching and Coded Computation with applications to Machine Learning, D2D and Vehicular Communications (V2X, V2V).





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
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Department: Electronics & Communication



Name: Dr. Rakesh R. T.

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: https://ece.nitc.ac.in/index.php?option=com_php&Itemid=66&uname=rakesh

Google Scholar ID :

<https://scholar.google.com/citations?user=fl3zTTEAAA&hl=en&oi=sra>

Scopus ID :

Area of Research:

- Signal processing and resource allocation for wireless communications, geometrical modeling of wireless channels, machine learning for communications



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



Name: Dr. Srinivasarao Chintagunta

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Google Scholar ID :
<https://scholar.google.com/citations?user=bo-bXtAAAAAJ&hl=en>

Scopus ID : 55820346600

Orcid ID : 0000-0001-9589-6775

Area of Research:

- Array Signal Processing, MIMO radar, Localization of UAVs
- PAPR reduction of OFDM & OTFS waveforms



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication



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Qualification: Ph.D., (IIT Kanpur)

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Google Scholar ID
:https://scholar.google.com/citations?user=HttYbpQAAAAJ&hl=en

Scopus ID :

Area of Research:

- Speaker Recognition/Verification Automatic Speech Recognition Detection and Classification of Acoustic Scenes and Events speech enhancement



Name : Sanjay Viswanath

Qualification : Ph.D (IISc, Bangalore).

Designation : Assistant Professor Grade II

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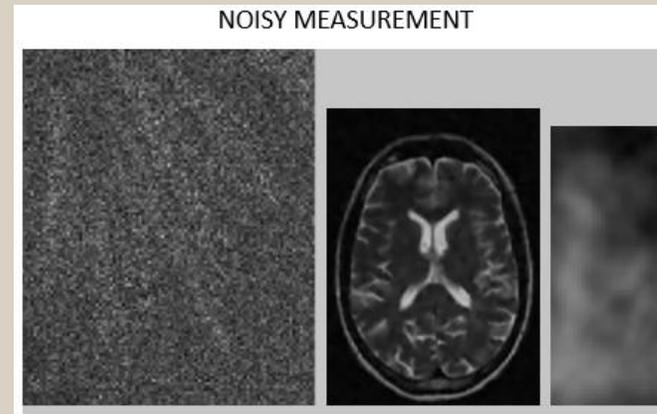
Google Scholar ID :
<https://scholar.google.com/citations?user=ZvT1C3sAAAAJ&hl=en&oi=ao>

Scopus ID : 57225823008

Orcid ID : <https://orcid.org/0000-0002-8125-3725>

Area of Research:

- Image Processing and Optimization.
- Bio-medical Inverse Problems, Magnetic Resonance Imaging, and Fluorescence Microscopy.
- Computer Vision and AI/ML Microservices.





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Department: Electronics & Communication



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Google Scholar ID : [pFWYTIQAAAAJ&hl=en](https://scholar.google.com/citations?hl=en&user=pFWYTIQAAAAJ)

Scopus ID :

Orcid ID :0000-0002-9033-5212

Area of Research:

- Optical Wireless Communication (FSO, VLC, UWOC)
- Optical Communication
- Photonic Crystal Fiber
- Photonics
- Optical Sensors
- Co-Operative wireless Communication



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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Electronics & Communication

Area of Research:

- Phase change photonic memory devices for neuromorphic computing applications
- Photonic integrated circuits for Biosensing applications
- Broadband tunable absorber
- Optical limiter for defence application
- Optical filters for space applications
- Biomedical system development



Name: Dr. Arjunan M S

Qualification: PhD (IIT Indore)

Designation : Assistant Professor Grade II

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Email : arjunanms@nitc.ac.in

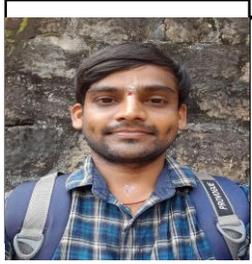
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<https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/bcd9b31e-6ead-4cda-99fe-35746712db3f>

Google Scholar ID : [PDHNjEQAAAAJ&hl](https://scholar.google.com/citations?user=PDHNjEQAAAAJ&hl)

Scopus ID :

Orcid ID :0000-0002-1683-0338



Name: Dr. G. Narendra Kumar Reddy
Qualification: Ph.D (IIT Bhubaneswar).

Designation : Assistant Professor Grade II

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Google Scholar ID : [octuOtMAAAAJ](https://scholar.google.com/citations?user=octuOtMAAAAJ)

Scopus ID :

Orcid ID : [0000-0001-6157-0443](https://orcid.org/0000-0001-6157-0443)

Area of Research:

- Signal Processing (Denoising, Compression, Signal Quality Assessment and Feature Extraction)
- Wearable Healthcare Monitoring
- Artificial Intelligence Framework for Improving Diagnostic Accuracy and Reducing False Alarms
- Energy-Efficient Strategies for IoT Enabled Health Monitoring
- Compressed Sensing and Sparse Representation
- VLSI Signal Processing



Name: Dr. Saikat Ch. Bakshi

Qualification: PhD (IEST Shibpur)

Post-Doc: National University of Singapore

Designation : Assistant Professor Grade II

Contact Number : +91-0495-2282301

Email : saikatbakshi@nitc.ac.in

Website address

: <https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/19442100-5746-4e74-8e4a-498aacdd2916>

Google Scholar ID : [As7KoJYAAAAJ](https://scholar.google.com/citations?user=As7KoJYAAAAJ)

Scopus ID : 57200617305

Orcid ID :0000-0002-3459-4770

Area of Research:

- Stealth Technology
- RF & Microwave Engineering
- Machine Learning based Microwave Imaging
- Phased Array and Reflect Array Antenna for Space Application Radar System Design
- Radar/ Array Signal Processing
- Beamforming for 6G
- Fundamental/Theoretical Aspects of Basic Electromagnetics
- Image Processing for Biological and Environmental Application
- Smart Agriculture and IoT Based Sensors
- Hyperspectral Imaging



Name: Dr. Debjani Goswami
 Qualification: Ph.D (IIT Kharagpur)

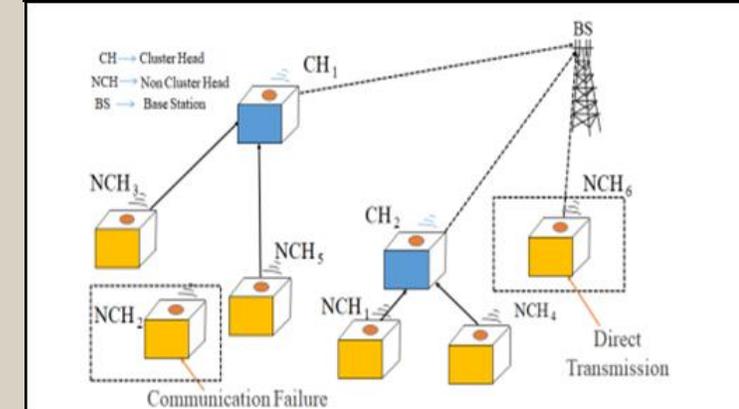
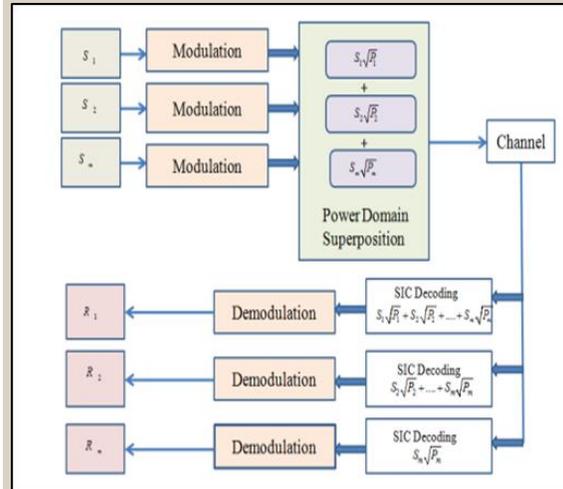
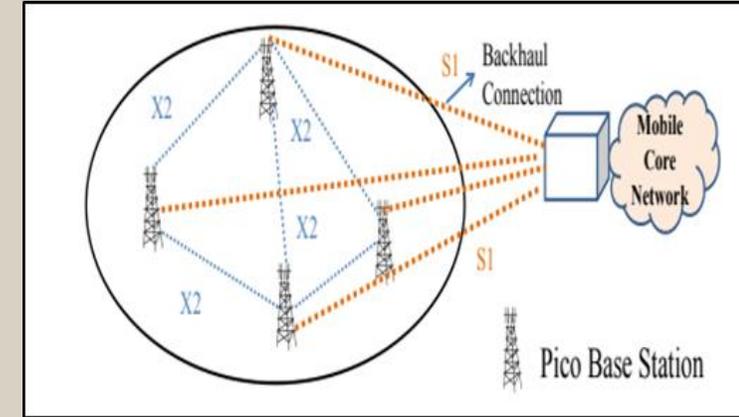
Designation : Assistant Professor Grade II
 Contact Number : 0495-2286701
 Email : debjanigoswami@nitc.ac.in
 Website address

: <https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/932ee230-cbc2-4252-be38-cce15eb44b0e>

Google Scholar ID : [Fs500PMAAAAJ](https://scholar.google.com/citations?user=Fs500PMAAAAJ)
 Scopus ID : 57209089089
 Orcid ID : 0000-0002- 8506-1114

Area of Research:

- Resource Allocation in beyond 5G Systems
- Network Synchronization
- Non-orthogonal multiple access (NOMA) assisted communication Networks.





Area of Research:
 Unmanned Aerial Vehicle Assisted Wireless
 Communication, Resource Allocation in Cognitive Radio
 Networks, and Deep Reinforcement Learning

Name : Dr. Abhishek Mondal

Qualification : Ph.D., (NIT Silchar)

Designation : Assistant Professor

Grade-II

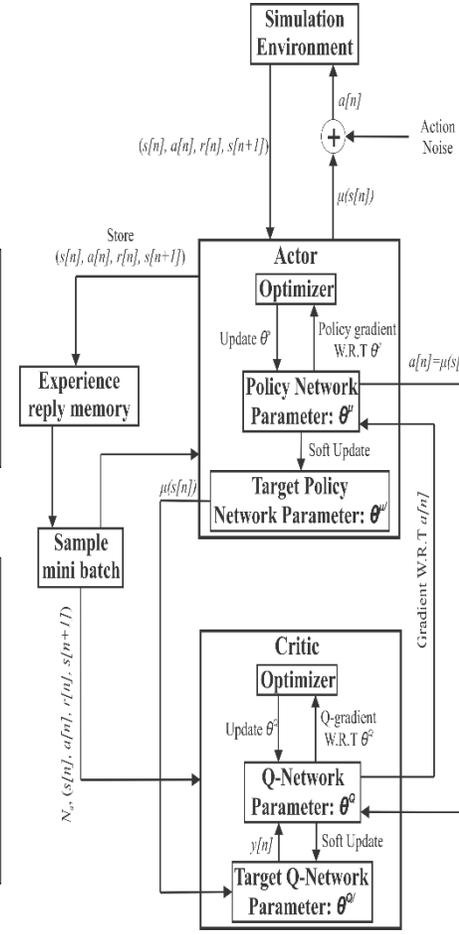
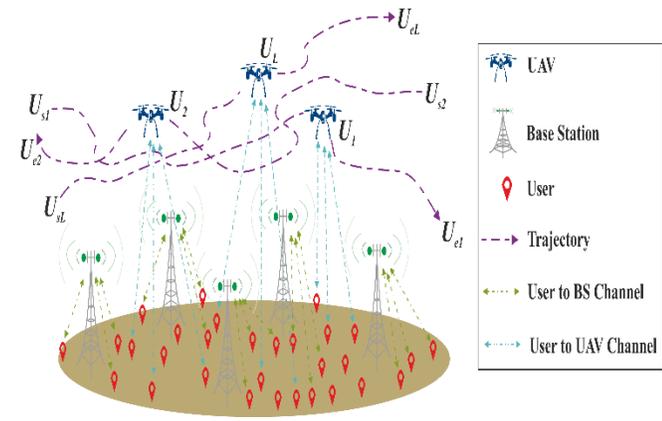
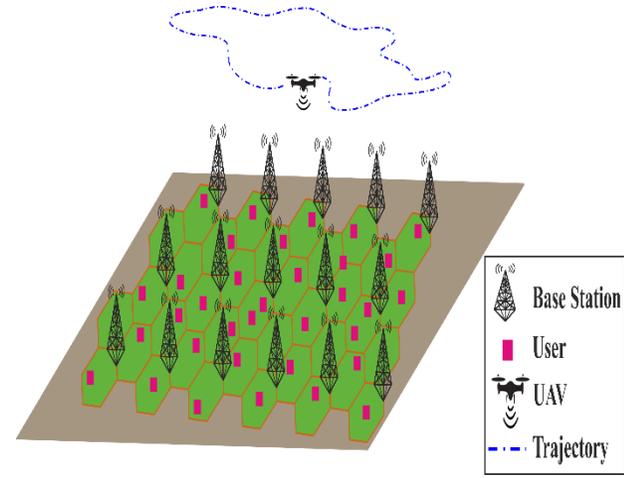
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[communication-engineering/faculty-and-staff/faculty/e745176c-5130-4a07-8b34-db8ca924b1d2](https://nitc.ac.in/department/electronics-amp-communication-engineering/faculty-and-staff/faculty/e745176c-5130-4a07-8b34-db8ca924b1d2)





Name: Dr. Stacy Anastacia Lynrah

Qualification: PhD (NIT Nagaland)

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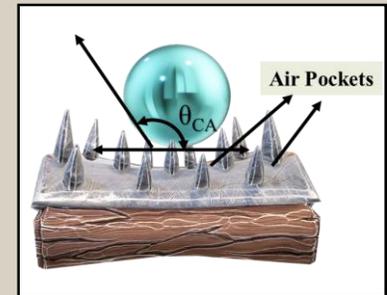
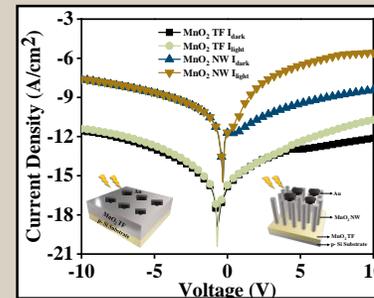
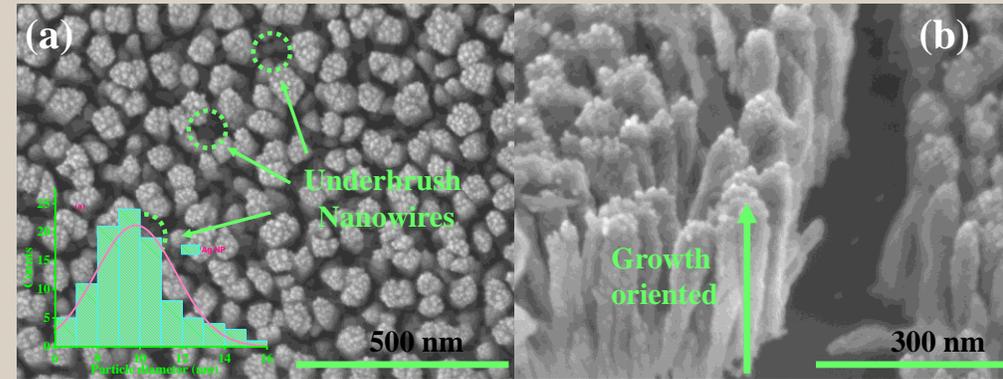
Google Scholar ID:

Scopus ID :

Orcid ID :

Area of Research:

- Nanoelectronics, Semiconductor Devices fabrication, Photodetectors, Gas sensors, Self-cleaning surfaces.





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 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department:

Area of Research:

RF and Microwave, Antennas, Power Amplifier.



Name : Dr. Karthik R

Qualification : Ph.D from NIT Surathkal

Designation : Assistant Professor II

Contact Number : 8073168926

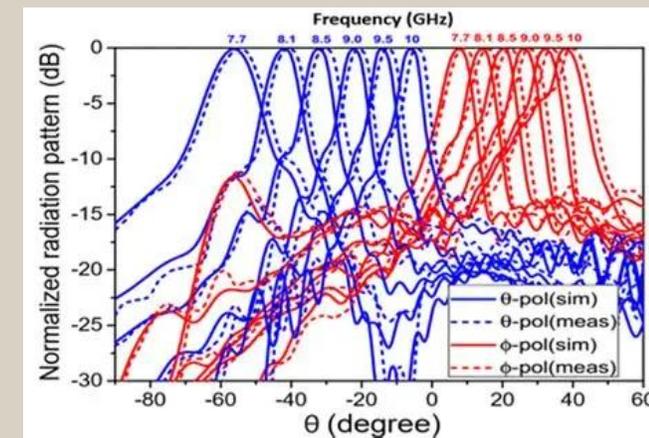
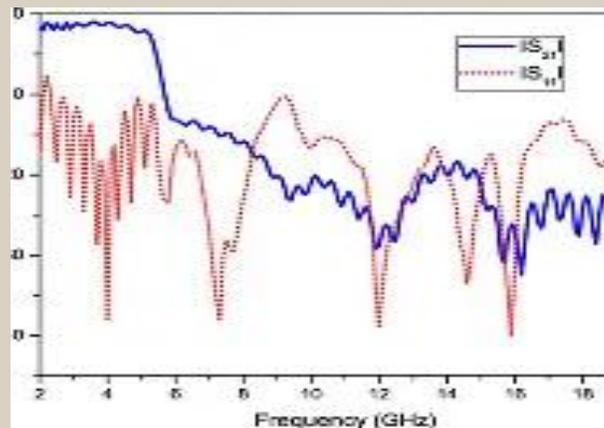
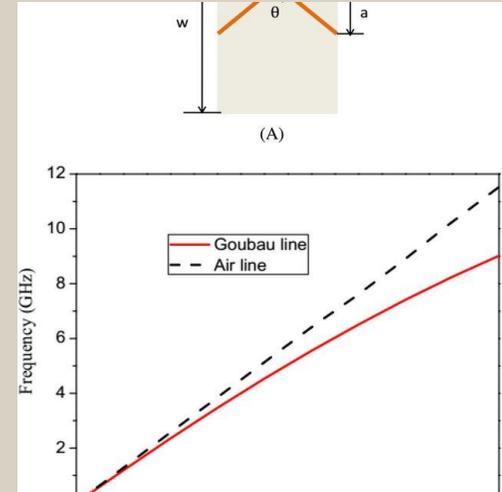
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Scopus ID :

Orcid ID : 0000-0002-7109-5989





Name : Dr. Nithin V. Sabu

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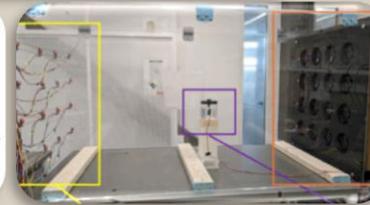
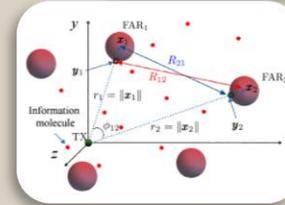
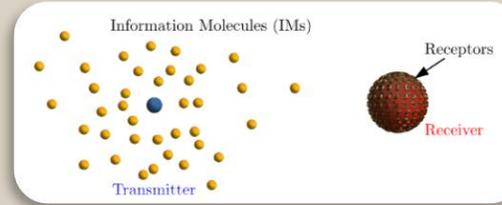
Website address : <https://sites.google.com/nitc.ac.in/nithinvsabu>

Google Scholar ID : e1iKLqcAAAAJ

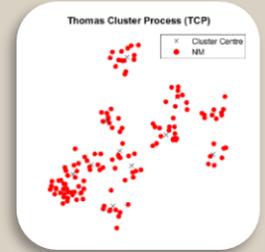
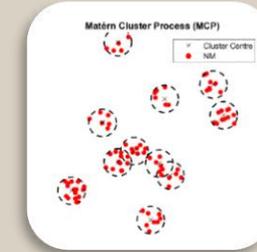
Scopus ID : 57216283666

Orcid ID : 0000-0003-0548-2697

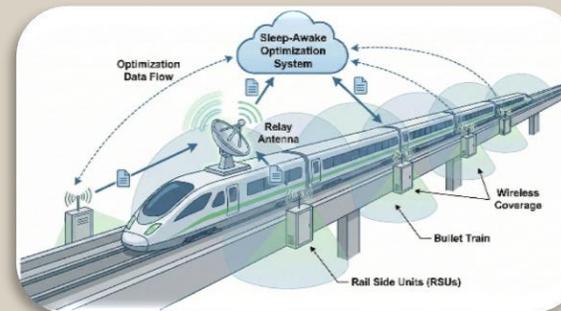
Area of Research:



1. Molecular Communication



2. Stochastic Geometry

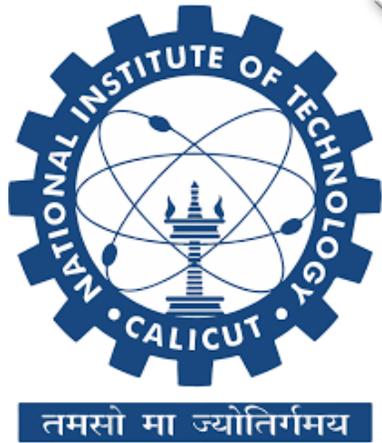


3. Sleep – Awake Optimization



4. Beyond- 5G systems

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Mathematics

LIST OF FACULTY

- [Dr.Sanjay P. K.](#)
- [Dr.Abhay Kumar Chaturvedi](#)
- [Dr.R. Ashok](#)
- [Dr. Chiranjit Ray](#)
- [Dr. Deepesh K P](#)
- [Dr. Geethika Sebastian](#)
- [Dr. S. Gokulraj](#)
- [Dr. Krishnan Paramasivam](#)
- [Dr. Nazim Khan](#)
- [Dr. Neetu Garg](#)
- [Dr. Sekhar Ghosh](#)
- [Dr. Sunil Jacob John](#)
- [Dr. Sunitha M S](#)
- [Dr. Vibhuti Arora](#)
- [Dr. Sunil Mathew](#)
- [Dr. Chithra A.V](#)
- [Dr. Satyananda Panda](#)
- [Dr. Ashish Awasthi](#)
- [Dr. Lineesh M C](#)
- [Dr. Mahesh Kumar](#)
- [Dr. Suresh Kumar Nadupuri](#)
- [Dr. K. Palpandi](#)
- [Dr. Pinka Dey](#)
- [Dr. Praphulla Koushik](#)
- [Dr. R. Vijayakumar](#)
- [Dr. Saudamini Nayak](#)
- [Dr. SUDHANSU SEKHAR ROUT](#)
- [Dr. Tamal Pramanick](#)



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Department: Mathematics

Area of Research:

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Google Scholar ID : 4gSHszcAAAAJ

Scopus ID : 55656641300

ORCID ID : 0000-0002-0507-9075

Harmonic Analysis

Harmonic Analysis on the Heisenberg Groups.



Area of Research: Numerical Analysis of Differential Equations



Name : Dr. Abhay Kumar Chaturvedi

Qualification : PhD, IIT

- Numerical Analysis
- Numerical Analysis of Ordinary and Partial Differential Equations
- Numerical Analysis of Singularly Perturbed Differential/Delay-Differential Equations
- Finite Difference Methods
- Finite Element Methods

My research focuses on the design and analysis of finite difference and finite element methods for time-dependent and time-independent partial differential equations exhibiting boundary and interior layers, including the study of local discontinuous Galerkin (LDG) methods.

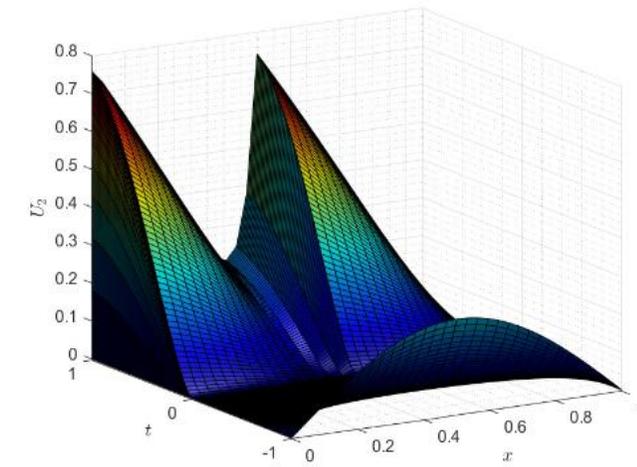
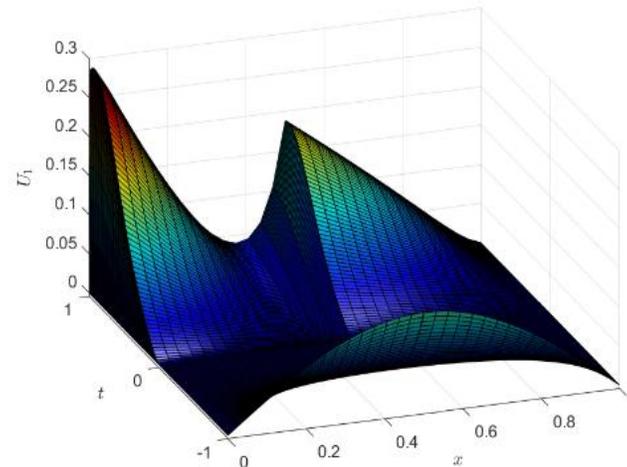
Designation : Assistant Professor Gr. II

Contact Number : +91- 9990698307

Email : akchaturvedi@nitc.ac.in

Website address : [Link](#)

Orcid ID : 0000-0003-1708-6317





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics

Area of Research: Wave Structure Interactions, Partial Differential Equations



Name : R. Ashok

Qualification : Ph.D. (IIT

Designation : Assistant Professor

Contact Number : 7092538031

Email : ashokr@nitc.ac.in

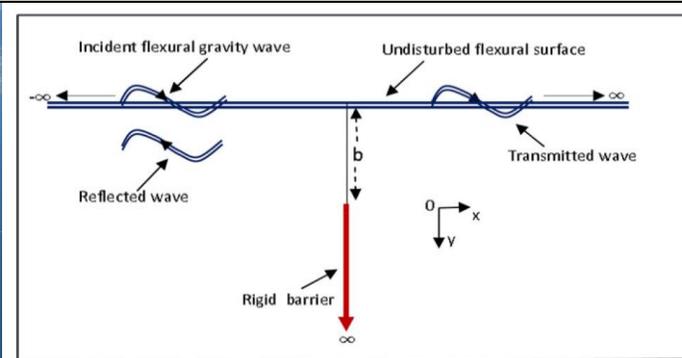
Website address : [NITC Website](#)

Google Scholar ID : fK3EX_cAAAAJ

Scopus ID : 57219158226

Orcid ID : 0000-0003-0449-811X

My research mainly focuses on the study of ice-coupled or membrane-coupled gravity wave scattering by a submerged vertical porous barrier of finite or infinite length in single- or two-layer fluid regions, considering different geometric configurations.





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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics



Name : Dr. Chiranjit Ray

Qualification: Ph.D. Indian Institute of
Technology Guwahati

Designation : Assistant Professor (Grade - I)

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Website address : <https://sites.google.com/view/chiranjitray>

Google Scholar ID : [OqrYp3gAAAAJ](https://scholar.google.com/citations?user=OqrYp3gAAAAJ)

ResearchGate ID : Chiranjit-Ray

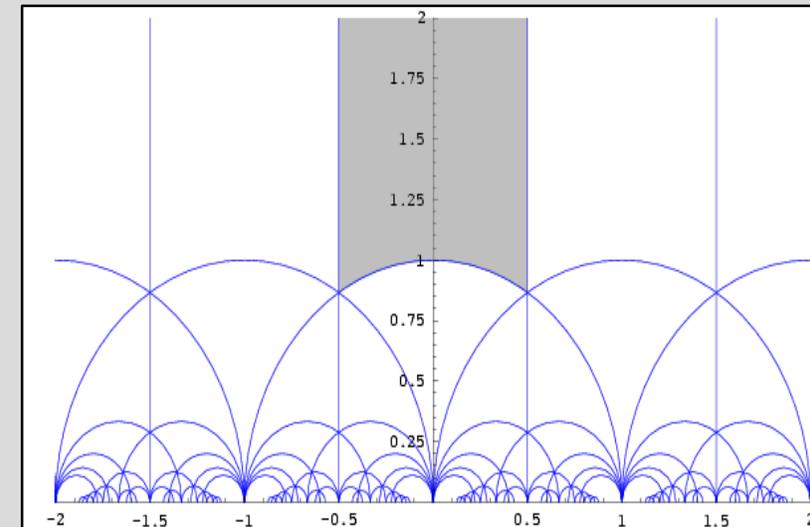
ORCID ID : 0000-0001-

5311-9425

MathSciNet ID : 1242169

Area of Research:

Number Theory: Modular Forms, Partition Theory





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics



Name: Dr. Deepesh K P

Qualification: Ph.D., (IIT Madras)

Area of Research:

- My research area is Functional Analysis and Operator Theory. I work on spectral study of operators, singular values and its generalizations. I am also interested in the study of Hardy-Hilbert spaces.

Designation :Assistant Professor

Contact Number :9400035597

Email :deepeshkp@nitc.ac.in

Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/cadb33c3-9ccd-4b91-831c-efde2bfc49c0>

Google Scholar ID :bOAO5K4AAAAJ

Scopus ID :35094952100

Orcid ID :0009-0002-4790-9425



Name: Dr. Geethika Sebastia

Qualification: Ph.D., (IIT Hyderabad)

Designation : Assistant Professor Grade II

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Website address :

<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/f219e829-ecf8-4e3e-950b-073f5ae0ded7>

Google Scholar ID : QkqeL_gAAAAJ

Scopus ID : 57202075861

ORCID ID : 0000-0003-0744-3974

Area of Research:

Functional Analysis

Write two to three points about your area of expertise/Current area of work:

- Variations of the Gleason Kahane Zelazko Theorem in Banach algebras.
- Non linear preserver problems in Banach Algebras.



Name : Dr. S. Gokulraj

Qualification : Ph.D., (CUTN)

Designation : Assistant Professor

Contact Number : +91 9940906056

Email : gokulrajs@nitc.ac.in

Website address: <https://sites.google.com/view/gokulraj/>

Google Scholar ID :

Scopus ID : 57204124950

ORCID ID : 0000-0002-2952-5586

Area of Research:

Optimization and Game Theory

- My recent work on constrained games is about the mathematical programming formulation of the constrained games which has an immediate applications in the future smart grid technology.
- I am also working on the problems on the bi-linearity rank of specific convex(non-polyhedral) cones, cone preservers, and positive linear maps on different cones.

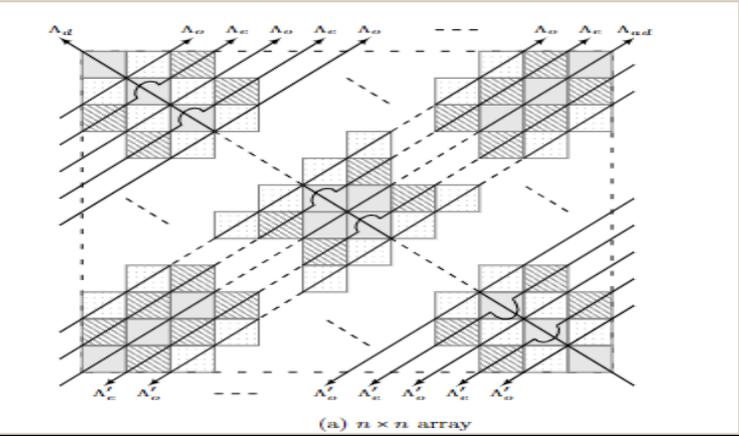
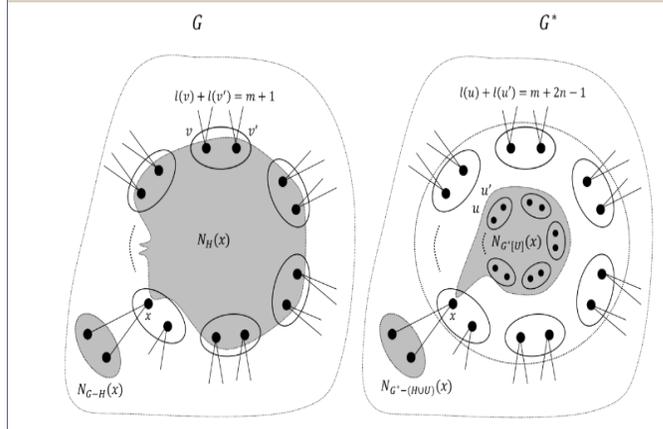
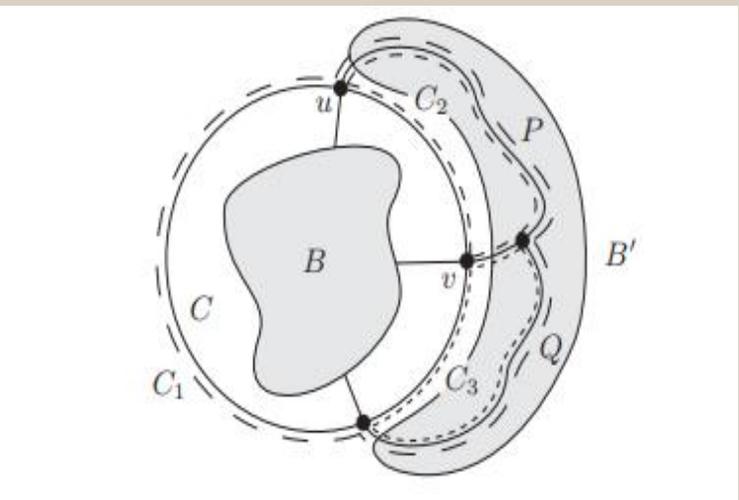


Name : Dr. Krishnan Paramasivam
 Qualification: PhD (IIT Madras)

Designation : Associate Professor
 Contact Number : 9526019924
 Email : sivam@nitc.ac.in
 Website address : <https://nitc.ac.in/kp>

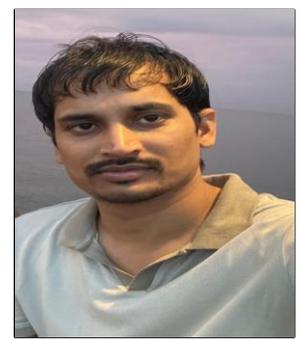
Google Scholar ID : [ExpbKcAAAAJ&hl=en](https://scholar.google.com/citations?user=ExpbKcAAAAJ&hl=en)
 Scopus ID : [57208577562](https://orcid.org/0000-0001-8935-2819)
 ORCID ID : [0000-0001-8935-2819](https://orcid.org/0000-0001-8935-2819)

1. Algebraic Graph Theory
2. Commutative Algebra
3. Combinatorial Design Theory





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 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Name : Dr. Nazim Khan
 Qualification : Ph.D., (Aligarh Muslim University)
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Website address : <https://nitc.ac.in/NK>

Google Scholar ID : https://scholar.google.com/citations?user=9I_4_uYAAAAJ&hl=en
 Scopus ID : 57346405800
 ORCID ID : 0000-0003-4040-5013

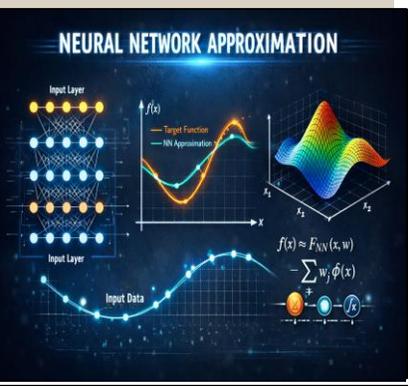
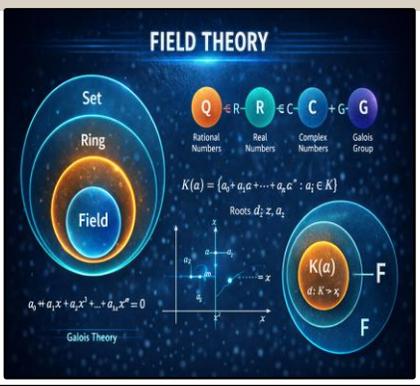
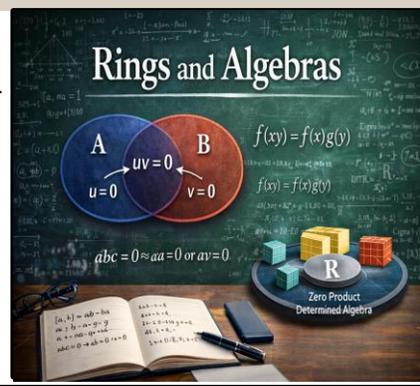
Department: Mathematics

Area of Research: My core area of research is

- Rings and Algebras: Functional identities, zero product-determined algebras
- Field Theory.

My current research interest includes the following area:

- Approximation Theory: Neural Network Approximation.
- Machine Learning





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 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department:

Area of Research:



Name : Neetu Garg

Qualification : Ph.D. NIT

Designation : Assistant Professor

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Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/9f726639-53f3-49a0-a81c-17006273dd50>

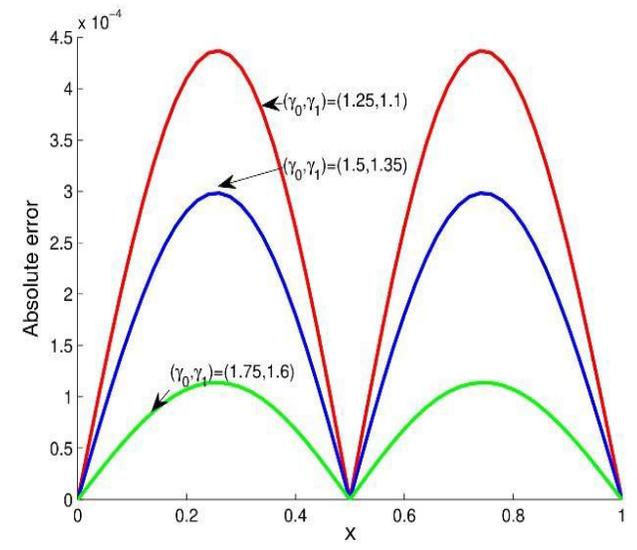
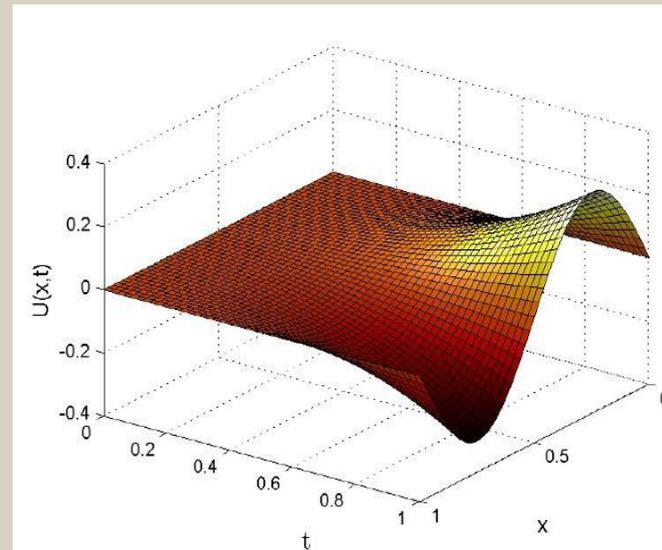
Google Scholar ID: V6dTpwAAAAJ

Scopus ID : 57200298129

Orcid ID : 0000-0003-2415-2589

Numerical Analysis, Fractional Differential Equation

Write two to three points about your area of expertise/Current area of work. I am interested in the analysis and numerical solution of the fractional differential equations.





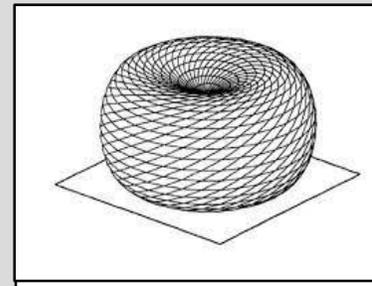
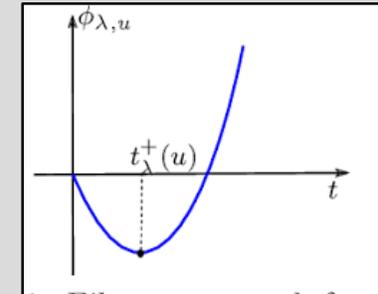
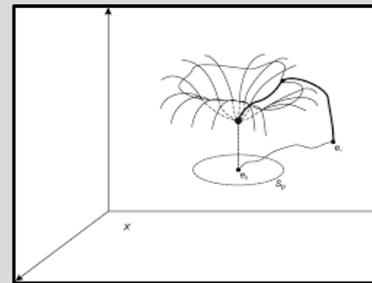
Name : Dr. Sekhar Ghosh
 Qualification: Ph.D., (NIT Rourkela)

Designation : Assistant Professor
 Contact Number : 7382563682
 Email : sekharghosh@nitc.ac.in
 Website address : [NITC Webpage](#)
 Google Scholar ID : [uv_-pagAAAAJ](#)
 Scopus ID : 57197850860
 ORCID ID : 0000-0002-5082-2374

Area of Research:

Analysis and Theoretical PDEs.

I work on the theory of existence and regularity of weak solutions to nonlinear elliptic PDEs over Euclidean domains and sub-elliptic PDEs on stratified Lie groups. My research includes analytical tools like Functional analysis, Variational methods, Weak convergence method, etc.





Area of Research:



Name : Sunil Jacob John

Qualification: Ph.D., (CUSAT)

Designation :Professor

Contact Number :9447208759

Email :sunil@nitc.ac.in

Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/8a8c8a75-0863-40e6-b5c4-972a45f6336d>

Google Scholar ID :[Sunil Jacob John - Google Scholar](#)

Scopus ID :35318729500,55096973100, 25924321100

ORCID ID :0000-0002-6333-2884

SET GENERALIZATIONS

Fuzzy sets, Soft sets, Multisets, Rough sets TOPOLOGY

Algebraic topology, Fuzzy topology



Dr. Sunitha M S

M.Phil, Ph.D., (CUSAT)

Designation : Professor

Contact Number : 9744448250

Email : sunitha@nitc.ac.in

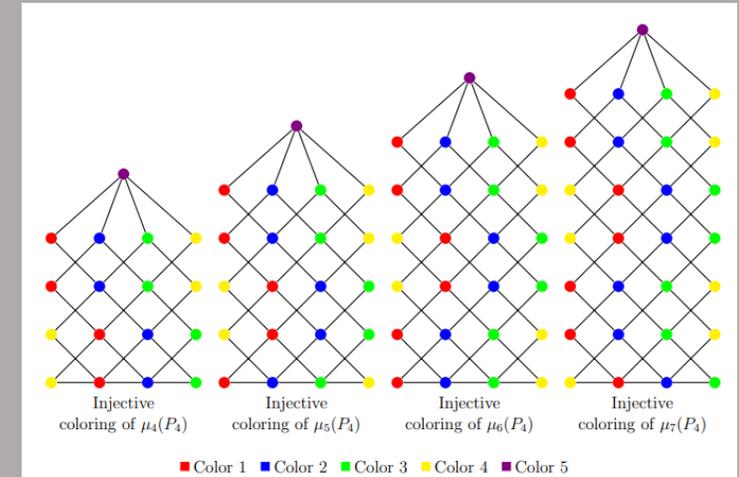
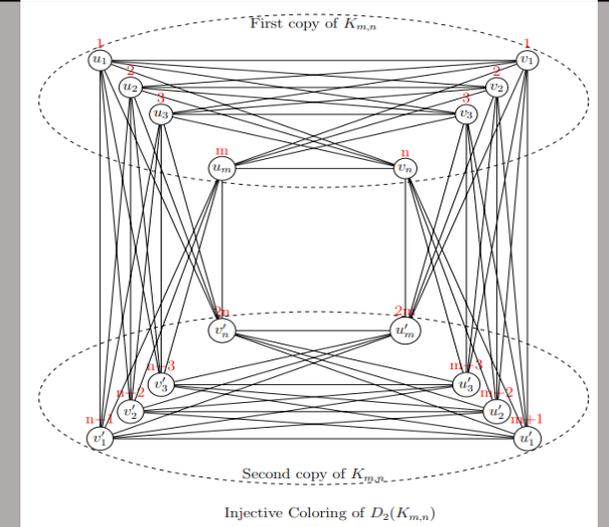
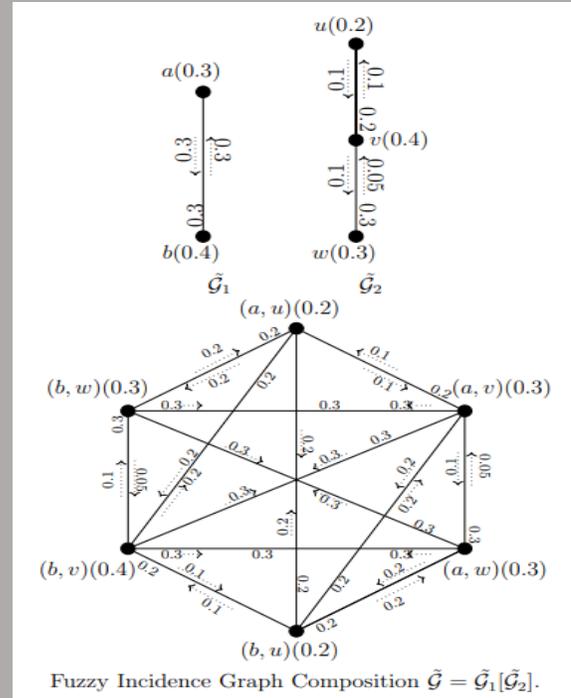
Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/3abb1ebc-da4a-468e-86a5-6c2f083f87b4>

Google Scholar ID
<https://scholar.google.com/citations?user=3pvV3zUAAAAJ&hl=en&oi=ao>

Scopus ID : 6602736787

Area of Research:

- Fuzzy Graph Theory
- Algebraic Graph Theory
- Graph Coloring





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics



Name: Dr. Vibhuti Arora

Qualification: Ph.D. (IIT Indore), Postdoc (IIT Bhubaneswar)

Designation : Assistant Professor

Contact Number : 7000473664

Email : vibhuti@nitc.ac.in

Website address :
<https://sites.google.com/view/vibhuti-arora/home>

Google Scholar ID :4X3qG7AAAAAJ

Scopus ID :57204524723

Orcid ID : 0000-0003-2408-0765

Area of Research:

Complex analysis

- Geometric Function Theory
- Quasiconformal Mappings
- Harmonic mappings



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics

Area of Research: **Fractal Geometry, Chaos Theory, Fuzzy Graph Theory**



Name : Sunil Mathew

Qualification : Ph. D

Designation : Associate Professor

Contact Number : 7510442252

Email : sm@nitc.ac.in

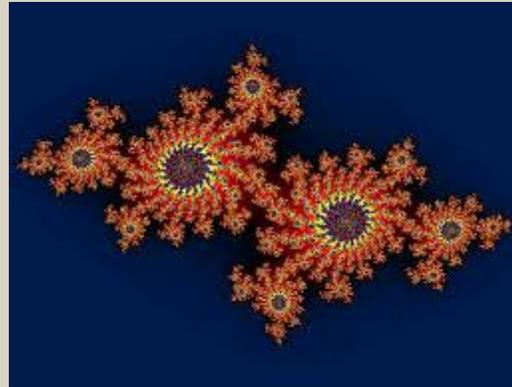
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Google Scholar ID: 8_MY9-wAAAAJ&hl

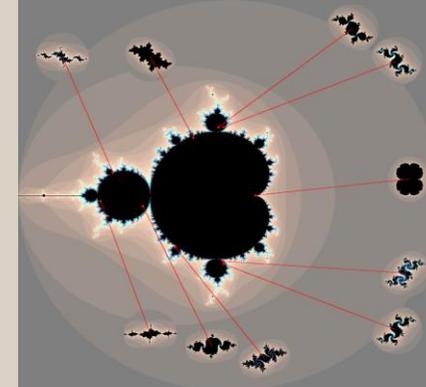
Scopus ID : 57195937314

Orcid ID : 0000-0001-8478-9245

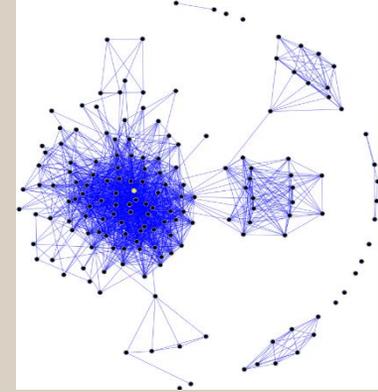
My current research focuses on nonlinear dynamics and graph theory. My primary areas of interest include **fractal geometry, chaotic dynamical systems, graph theory, fuzzy logic, and fuzzy graph theory.**



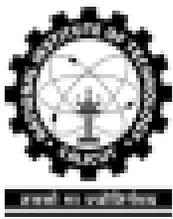
Julia Set



Mandelbrot Set



Network



Name : Chithra.A.V

Qualification :Ph.D(CUSAT)

Designation :Professor

Contact Number : 7306473931

Email : chithra@nitc.ac.in

Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/178a6777-f77f-4aed-bac9-0dd213873d86>

Google Scholar
 ID:<https://scholar.google.com/citations?user=5MFQ66QA-AAJ&hl=en>

Scopus ID :6506683391

Orcid ID :0000-0003-3078-243X

Area of Research:

Operator Theory

Spectral graph Theory

Algebraic graph Theory

Matrix Theory

Graphical
 representation
 of your Work

Graphical
 representation
 of your Work

Graphical
 representation
 of your Work



Area of Research:

PHOTO

Name : Dr. Satyananda Panda

Qualification : PhD

Designation : Professor

Contact Number : 9946191178

Email : satyanand@nitc.ac.in

Website address: <https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/5f989998-8840-4ea7-a944-439586932f5c>

Google Scholar ID: 4IOfrXUAAAAJ

Scopus ID:

Orcid ID :0000-0003-4219-1725 ,

1. Viscous Fiber Dynamics
2. Thin Liquid Films
3. Micro-EDM
4. Boundary Layer Theory
5. Natural Convection in a Cavity
6. Population Model

Graphical
representation
of your Work

Graphical
representation
of your Work

Graphical
representation
of your Work



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics

Area of Research: Numerical Analysis, Scientific Computing



Name : Ashish Awasthi

Qualification : PhD

Designation : Associate Professor

Contact Number : 9495660200

Email : aawasthi@nitc.ac.in

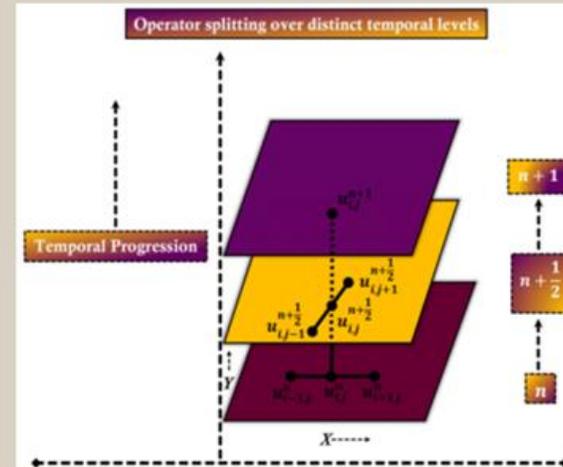
Website address : <https://url-shortener.me/C3P2>

Google Scholar ID: <https://url-shortener.me/C3P9>

Scopus ID : Scopus ID: 57222669764

Orcid ID : <https://orcid.org/0000-0002-3501-7908>

1. Computational Techniques to Solve Differential Equations- Finite Difference, Finite Elements, Finite Point Methods
2. Finite Points Methods for solving Nonlinear Partial Differential Equations
3. Computational Finance – Black-Scholes Models – Asian, European and American Options
4. Operational Matrix Methods for Solving Fractional Differential Equations (ODEs and PDEs)





Name : Dr. Lineesh M C

Qualification: Ph.D., (NITC)

Designation :Associate Professor

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Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/fc072bd-4d00-47cf-b3a0-c48670a0d178>

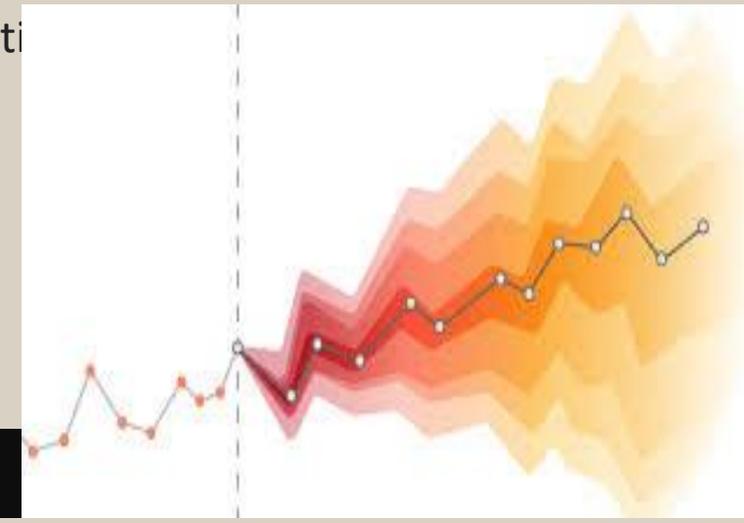
Google Scholar ID
 : <https://scholar.google.com/citations?hl=en&user=ZQQPEaMAAAAJ>

ORCID ID: :0000-0003-2912-4288

Area of Research:

Time Series Analysis and Wavelet Theory

1. Construction and characterization of wavelets on p-adic fields.
2. Construction and characterization of multi-wavelets using matrix polynomial theory.
3. Image based time series analysis and forecasting using Convolutional Neural Networks.
4. Study on bivariate multi





Name : Dr. Mahesh Kumar
Qualification: Ph.D., IIT Bombay,
India

:Associate Professor

:

[:mahesh@nitc.ac.in](mailto:mahesh@nitc.ac.in)

:

Website address

<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/41c16d59-3c9c-4b41-90fd-9c3ac10ff8e5>

Google Scholar ID :k3ec0sUAAAAJ

Scopus ID :58425129800

ORCID ID : 0000-0003-1153-5388

Area of Research:

Statistical Inference

Specialization: Reliability of Systems, Applied Statistics, Acceptance Sampling Plans.



Name : Dr. Suresh Kumar Nadupuri
Qualification : Ph.D. (Otto-von-Guericke
Universität Magdeburg, Germany)

Designation : Associate Professor

Contact Number : 9447053309

Email : nsk@nitc.ac.in

Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/8c5ac32c-d608-46b6-aa60-224be53984f3>

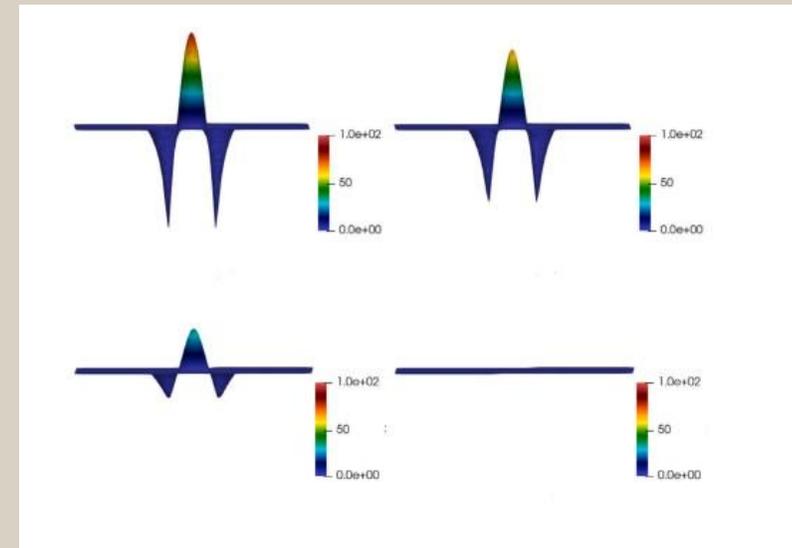
Google Scholar ID : mLcRStAAAAAJ

Scopus ID : 57214996234

Orcid ID : <https://orcid.org/0000-0001-7020-2749>

Area of Research:

- Numerical analysis and scientific computing
- Computational methods to solve integer and fractional order convection-diffusion-reaction equations
- Adaptive numerical methods to solve convection-diffusion-reaction equations
- PDE- constrained optimization





Name: K. Palpandi

Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor

Contact Number : 9043247853

Email : palpandik@nitc.ac.in

Website address : [Faculty Profile NITC](#)

Google Scholar ID :

<https://scholar.google.co.in/citations?user=uUAUMQsAAAAJ&hl=en>

Scopus ID : 57190834263

ORCID ID :

Area of Research: Linear Algebra and Optimization

- Study the existence and uniqueness of solutions to complementarity problems.
- Study on Eccentric Spectrum of Graphs.
- Study on solution structure of absolute value equation.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics



Name : Pinka Dey
Qualification : Ph.D., (IISER Mohali)
Designation : Assistant Professor (Gr-II)
Contact Number : 7696660207
Email : pinkadey@nitc.ac.in
Website address : [Website](#)
Google Scholar ID: hpYOmJ8AAAAJ
Scopus ID : 57191529186
ORCID ID : [0009-0004-2923-393X](#)

Area of Research: Algebraic Topology

Write two to three points about your area of expertise/Current area of work.

1. Equivariant stable homotopy theory
2. Free rank conjecture
3. Compact group actions on manifolds.
4. Topological Data Analysis (Future goal)



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mathematics



Name : Praphulla Koushik

Qualification : PhD

Area of Research:

Differential Geometry, Category theory

Designation : Assistant Professor

Contact Number : 7994008801

Email : praphullakoushik@nitc.ac.in

Website address :

<https://sites.google.com/view/praphulla-koushik>

Google Scholar ID: ueSvmPYAAAAJ

Scopus ID : [57217848461](https://scopus.com/authorid/57217848461)

Orcid ID: 0000-0001-9919-7939



Name : R. Vijayakumar

Qualification : Ph.D., (IIT Madras)

Designation : Assistant Professor

Contact Number : 9597321989

Email : vijayakumar@nitc.ac.in

Website address :

<https://shorturl.at/uCnQL>

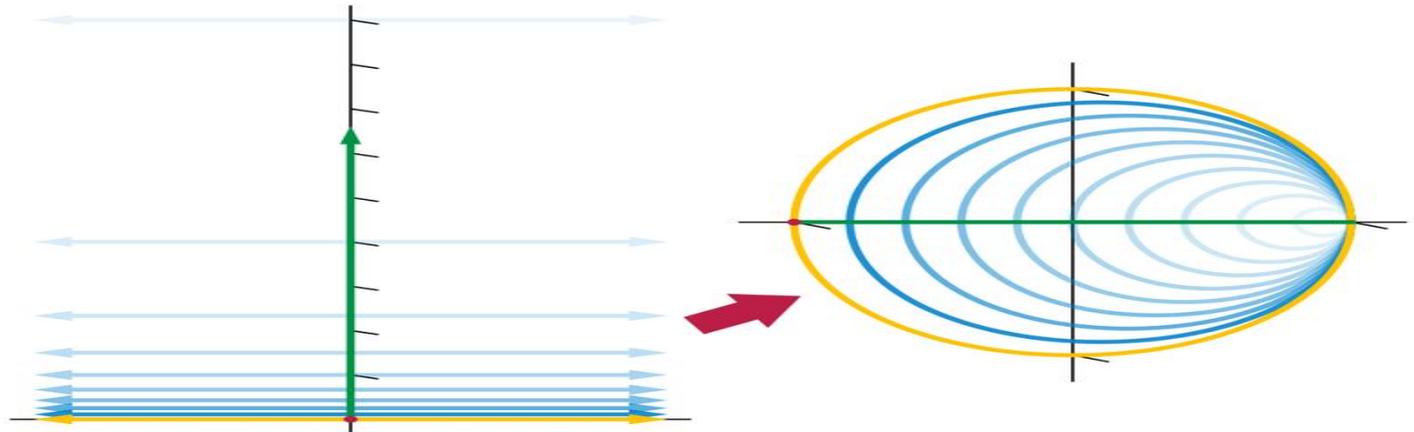
Google Scholar ID : E3G8IXgAAAAJ

Scopus ID : 57217420958

Orcid ID : 0009-0007-9796-2503

Area of Research: Complex Analysis

- Complex Analysis, with specialization in Geometric Function Theory of one and several complex variables, focusing on analytic, harmonic, and logharmonic mappings.
- Bohr-type inequalities, Lipschitz spaces, and generalized Schwarz lemmas, including refinements of classical inequalities and Bohr phenomena in various geometric settings.
- Current research on coefficient estimates and geometric properties of mappings, with applications to subordination, quasi-subordination classes, and Banach space-valued holomorphic functions.





Name: Dr. Saudamini Nayak

Qualification: Ph.D., (NIT Rourkela)

Designation :Assistant Professor

Contact Number :+91 495 228 5227

Email :saudamini@nitc.ac.in

Website address : <https://nitc.ac.in/SN>

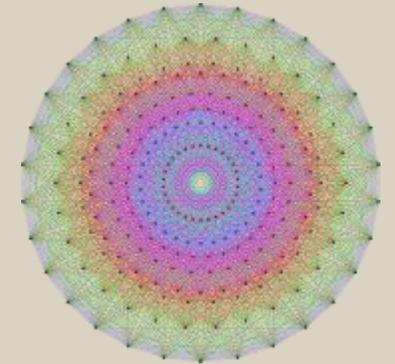
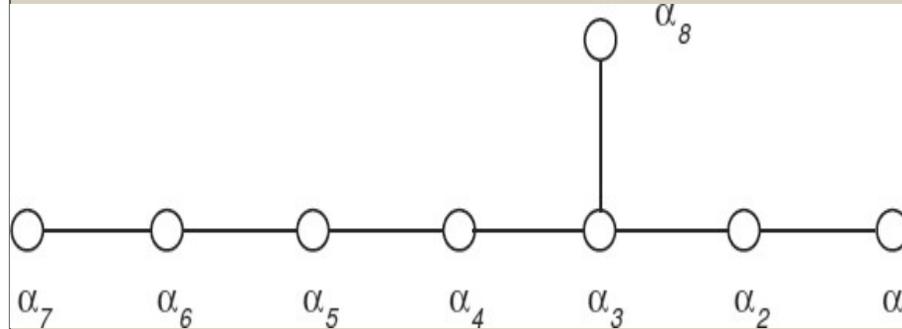
Google Scholar ID :wa13_O0AAAJ

Scopus ID :[55642758200](https://scopus.org/authorid/55642758200)

Orcid ID :0000-0002-8557-4120

Area of Research:

- My broad area of research is Lie Algebra and superalgebra. My current research interest includes the following:
 - ❖ Kac-Moody algebras
 - ❖ Representation theory of Lie algebras and superalgebras
 - ❖ Classification of nilpotent Lie superalgebras
 - ❖ Applications to number theory and combinatorics





Name: Dr. SUDHANSU SEKHAR ROUT

Qualification: Ph.D., (NIT Rourkela)

Designation : Assistant Professor (Grade-I)

Contact Number : +91 495 228 5226

Email : sudhansu@nitc.ac.in

Website address : <https://nitc.ac.in/ssr>

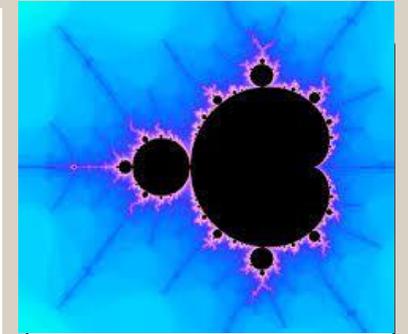
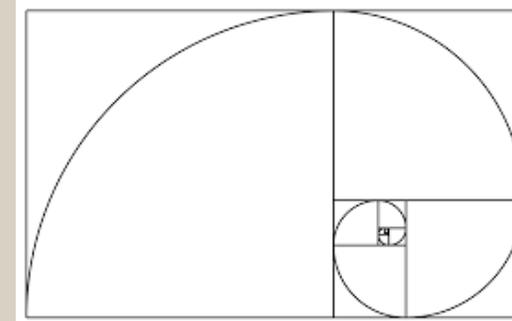
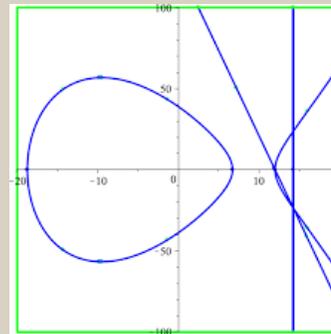
Google Scholar ID : JsVR4ocAAAAJ

Scopus ID : [55848779800](https://scopus.org/authorid/55848779800)

Orcid ID : 0000-0003-4291-3871

Area of Research:

- My broad area of research is **Number Theory** and my research interest includes:
 - Diophantine equations
 - S-units in recurrence sequences
 - Special values of zeta functions
 - Arithmetic of dynamical systems





Name: Dr. Tamal Pramanick

Qualification: Ph.D., (IIT Guwahati)

Designation : Assistant Professor

Contact Number : 0495 228 5229

Email : tamal@nitc.ac.in

Website address :
<https://nitc.ac.in/department/mathematics/faculty-and-staff/faculty/6bedb28c-66f2-4216-8652-0085d7ae9301>

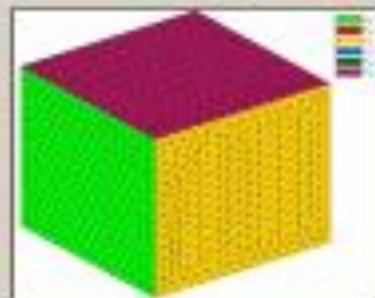
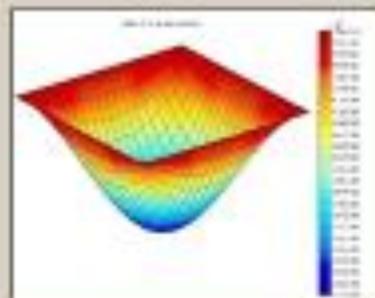
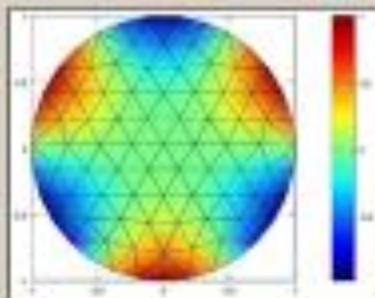
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Scopus ID : 57196480454

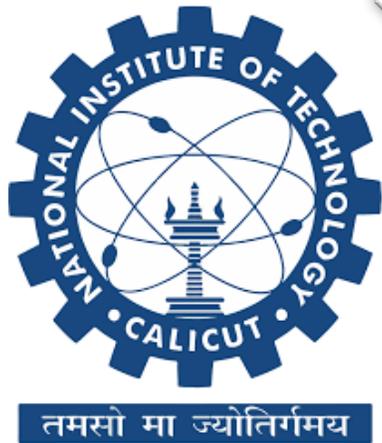
Orcid ID : 0000-0001-8577-0431

Area of Research:

- Finite Element Method
- Numerical Analysis
- Scientific Computing
- Use a graphical representation describing your research(one or two images), if interested.



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
**Department of Management
Studies**

LIST OF FACULTY

- **Dr. Muhammad Shafi**
- **Dr. Nithya M**
- **Dr. Sreejith S S**
- **Dr. Althaf S**
- **Dr. Manju Mahipalan**
- **Dr. Sreekanth V K**
- **Dr. S. Saravana Kumar**
- **Dr. Arjun Anil Kumar**
- **Dr Akansha Singh**



Name : Dr Muhammad Shafi

Qualification : Ph.D.(AMU Aligarh)

Designation : Associate Professor

Contact Number : +91 8943001345

Email : shafi@nitc.ac.in

Website address :
<https://nitc.ac.in/department/management-studies/faculty-and-staff/faculty/c985e8a7-e5ba-4668-a9b5-066378d467d0>

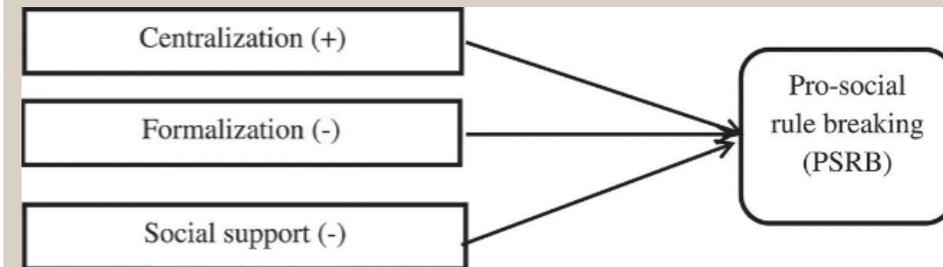
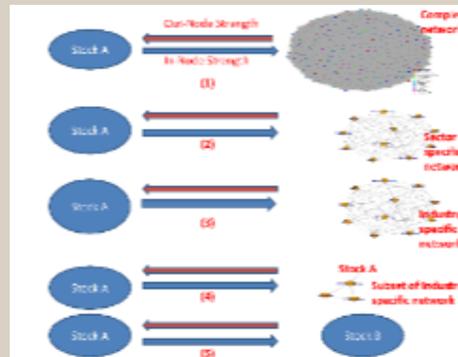
Google Scholar ID: shafi@nitc.ac.in

Scopus ID : 57191954493

Orcid ID : 0000-0002-6667-576X

Area of Research:

- Business Government Relations, CSR and Governance
- Financial Management and Analytics
- General Management, Macroeconomics





Name : Dr Nithya M

Qualification : Ph.D. (Anna University)

Designation : Assistant Professor Grade I

Contact Number : +91 9486538113

Email : nithyam@nitc.ac.in

Website address : <https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty/430a0c0e-7ff3-468d-aeb9-267f96eb72aa>

Google Scholar ID : Nzq47BEAAAAJ

Scopus ID : 57206334106

ORCID ID : 0000-0002-0062-128X

Area of Research:

- Brand Extension, Brand Activism, Co- branding
- Consumer behavior, Green consumption, Sustainability Marketing, Green washing
- Femvertising, Counter-stereotyping in advertising, woke washing
- Gender inclusivity in Marketing and Segmentation





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Management Studies



Name : Dr Sreejith S S

Qualification : Ph.D. (Indian Institute of Science, Bangalore)

Designation : Assistant Professor

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- Website address : <https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty/page/2>

- Google Scholar ID : sreejithss@nitc.ac.in

Scopus ID : 57062587300

Orcid ID : 0000-0002-3294-5434

Area of Research:

- Organizational Behavior & Human Resource Management
- Multiple Criteria Decision Making in Employee Performance Evaluation
- HR Analytics adoption in organizations – challenges and opportunities
- Building a diverse, equitable, inclusive and sustainable workplace



Name : Althaf S

Qualification : PhD (IIM Bangalore),
 Five Year Integrated MA(IIT Madras)

Designation : Assistant Professor Gr-II

Contact Number : 8277681558

Email : althaf@nitc.ac.in

Website address : <https://sites.google.com/view/althafs>

Google Scholar ID: aKEaP8AAAAJ

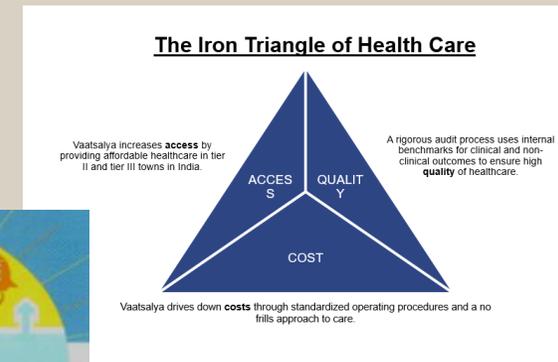
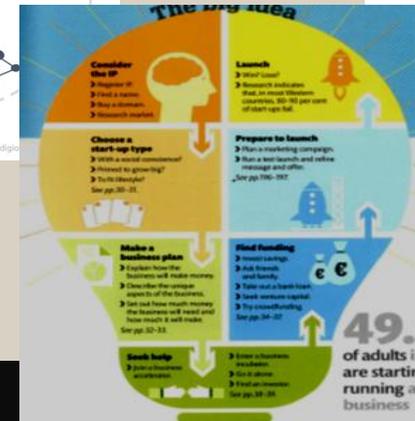
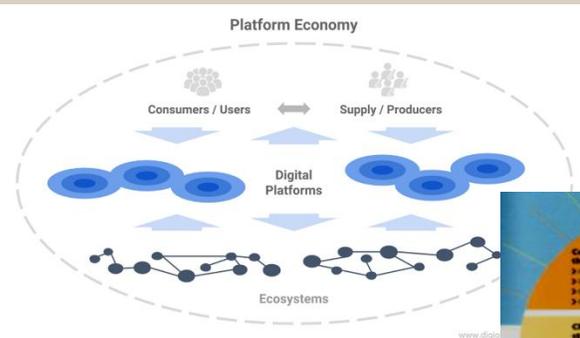
Scopus ID :57224742076

Orcid ID :0000-0001-6289-8061

Area of Research: Business Models and Data-Driven Public Policy

Write two to three points about your area of expertise/Current area of work.

- Business Models, Digital Platforms and Inclusive Business Models in Enviro-Health
- Entrepreneurship and Start-ups -Qualitative research on venture creation, survival and scaling of Indian entrepreneurs
- Healthcare Management and Data Driven Public Policy - Health and Environment





Name : Dr Manju Mahipalan

Qualification : Ph.D. (NIT Karnataka)

Designation : Assistant Professor

Contact Number : +91 9446142355

Email : manju@nitc.ac.in

- Website address : [https://nitc.ac.in/schools/school-](https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty/4074ad34-087e-4b3a-95f5-f2a8c69e9127)
- [of-management-studies/faculty-and-](https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty/4074ad34-087e-4b3a-95f5-f2a8c69e9127)
- [staff/faculty/4074ad34-087e-4b3a-95f5-f2a8c69e9127](https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty/4074ad34-087e-4b3a-95f5-f2a8c69e9127)

- Google Scholar ID : ijrXd1IAAAAJ

Scopus ID : 57203546423

Area of Research:

- Workplace well-being
- Positive Psychology- Relevance & Interventions
- Imposter Phenomenon- Qualitative Study



Name : Dr Sreekanth V K

Qualification : Ph.D., (Indian Institute of Technology Kharagpur)

Designation : Assistant Professor

Contact Number : +91 9895925259

Email : sreekanth@nitc.ac.in

• Website address :
<https://sites.google.com/nitc.ac.in/sreekanthvk>

• Google Scholar ID : sreekanth@nitc.ac.in
(cnNAvYcAAAAJ)

Scopus ID : 56192885600

Orcid ID :0000-0001-6289-8061

Area of Research:

- Open Innovation and Knowledge Management
- Information Disorder
- Information Asymmetry
- Entrepreneurship





Name : Dr S. Saravana Kumar
Qualification : Ph.D. (Indian Institute
of Technology Madras)

Designation : Assistant Professor

Contact Number : +91 9361001806

Email : saravanakumar@nitc.ac.in

- Website address : <https://nitc.ac.in/schools/school-of-management-studies/faculty-and-staff/faculty>

- Google Scholar ID : saravanakumar@nitc.ac.in

- Orcid ID : 0000-0006-2895-506X

Area of Research:

- Industrial Engineering and Operations Research :

Work System Design, Improving Plant Layout, Designing of Material Handling Systems, Modelling and analysis of Production, Inventory, Queueing, Supply Chain and Service Systems

- Developing Branch-and-Bound algorithms, Branch and Price algorithms, Column generation methods for Integer Programming of difficult-to-solve (combinatorial) optimization problems
- Design of Non-Traditional Optimization methods including Search- Based Heuristic, Metaheuristic and Hybrid algorithms for Combinatorial problems



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Management Studies



Name : Dr Arjun Anil Kumar

Qualification : Ph.D., (Indian Institute
of Science)

Designation : Assistant Professor

Contact Number : +91 9591043540

Email : arjunanilk@nitc.ac.in

- Website address :
<https://nitc.ac.in/department/management-studies/faculty-and-staff/faculty/581d60b3-aa0a-40ff-fa6-748d34079c71>
- Google Scholar ID : cLoXq6QAAAAJ
- Orcid ID : 0000-0002-5163-6338

Area of Research:

- Natural Resource Management using Applied Remote Sensing Techniques
- Land Use Land Cover (LULC) Monitoring using Deep/Machine Learning
- Algorithms
- Spatial Analytics using R, Python, Colab, QGIS and Google Earth Engine



Name : Dr Akansha Singh

Qualification : Ph.D. (Indian Institute of Technology (ISM) Dhanbad)

Designation : Assistant Professor

Contact Number : +91 8986744549

Email : akanshasingh@nitc.ac.in

• Website address : <https://nitc.ac.in/department/management-studies/faculty-and-staff/faculty/b49b171f-52d7-4b1b-b38f-9fde2a6a1b3a>

• Google Scholar ID : VuHEAAAAJ

• Scopus ID : 57742178400

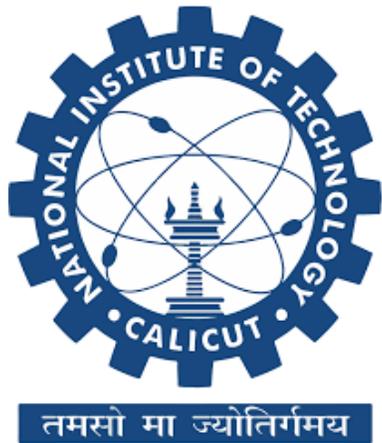
• Orcid ID : 0000-0002-2206-2988

Area of Research:

- Socially Responsible Business Initiatives, CSR, Cause Marketing
- Working towards solving the problems of sustainable development through cause-related marketing.
- Consumer engagement towards CSR activities adopting mixed-method study.
- Exploring various marketing strategies in Emerging Economy context.



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Materials Science
and Engineering

List of Faculty

- **Dr. C.B.Sobhan**
- **Dr.N.Sandhyarani**
- **Dr. Soney Varghese**
- **Dr. Sajith V**
- **Dr.Shijo Thomas**
- **Dr.Aparna Zagabathuni**
- **Dr.Shyam Kumar C N**
- **Dr.Hanas T**
- **Dr.Vinod E. Madhavan**



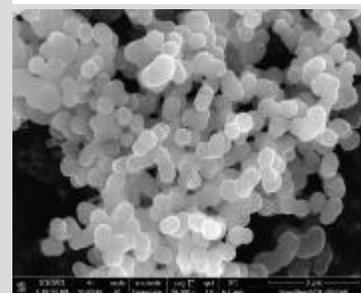
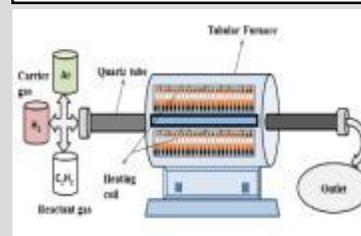
Name: C. B. Sobhan
 Qualification: Ph.D., (IIT Madras)

Designation : Professor (HAG)
 Contact Number : 91-495-2286502
 Email : csobhan@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-materials-science-and-engineering/faculty-and-staff/faculty/513a6035-689e-4603-80a1-88d4f16ef98e>:
 Google Scholar ID : <https://scholar.google.co.in/citations?user=FGbfZ-AAAAAJ&hl=en>
 Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=6603292977>
 Orcid ID : 0000-0001-9570-9191

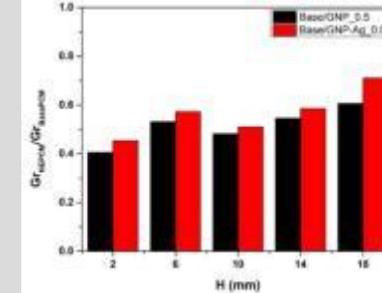
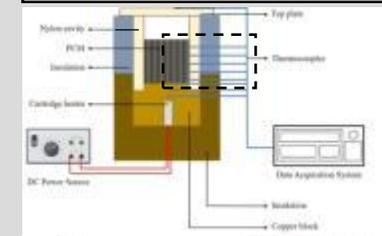
Area of Research:

- Microscale and Nanoscale Thermal Phenomena
- Optical Methods – Interferometry
- Synthesis and Properties of Nanomaterials
- Molecular Dynamics Simulations

Chemical Vapor Deposition Synthesis of Carbon Spheres



Nano-enhanced Phase Change Materials for Heat Transfer Applications



Molecular Dynamics Simulation of Thermal and Momentum Transport in Nanoparticle Suspensions

Force field – Lennard-Jones

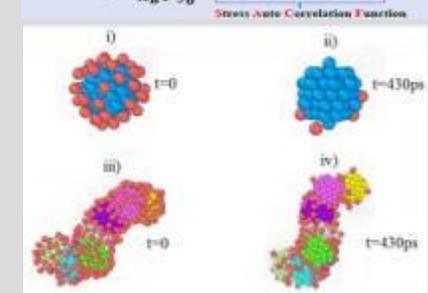
$$V(r_{ij}) = 4\epsilon \left[\left(\frac{\sigma}{r_{ij}} \right)^{12} - \left(\frac{\sigma}{r_{ij}} \right)^6 \right]$$

Green-Kubo – Thermal conductivity

$$k = \frac{1}{3k_BVT^2} \int_0^{\infty} \langle J_x(0) \cdot J_x(t) \rangle dt$$

Green-Kubo – Viscosity

$$\eta = \frac{V}{k_B T} \int_0^{\infty} \langle P_{xx}(t_0) \cdot P_{xx}(t_0 + t) \rangle dt$$





Name: Dr. N. Sandhyarani
 Qualification: Ph.D., (IIT Madras)

Designation :Professor
 Contact Number :04952286537
 Website address :
<https://nitc.ac.in/department/school-of-materials-science-and-engineering/faculty-and-staff/faculty/0abbb58f-cc45-42ea-821c-36e495860cda>
 Google Scholar ID :
<https://scholar.google.com/citations?user=IKbgQa8AAAJ&hl=en>
 Scopus ID :6603360447
 Orcid ID :0000-0002-6623-3347

Areas of Research:

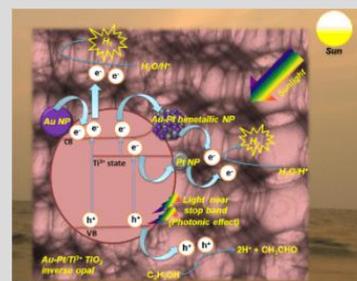
Nanomaterials for healthcare and clean energy applications

Green Energy Generation: Synthesis of electrocatalyst/ photocatalysts for Water Splitting Reactions Involving Hydrogen Evolution Reaction (HER) & Oxygen Evolution Reaction(OER).

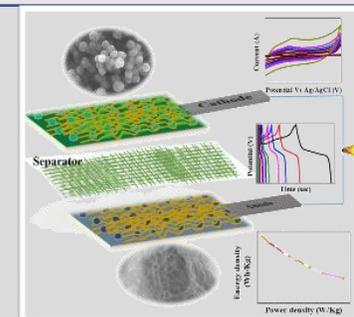
Clean Energy Generation: Electrocatalyst development for Direct Methanol Fuel Cells.

Energy Storage Design and development of nanomaterials for Batteries & Supercapacitors.

Biosensors Development of biosensors for the detection of biomolecules and biomarkers



Photocatalytic HER



Supercapacitor



Sepsis Biomarker sensor device



Name : Dr. Soney Varghese
Qualification : Ph.D., (Eindhoven University of Technology, The Netherlands)
Designation : Professor
Contact Number :9446792019
Email :soneyva@nitc.ac.in
Website address : www.nitc.ac.in
Google Scholar ID :
Scopus ID :[36872173800](https://orcid.org/0000-0001-9000-3687)
Orcid ID :

Area of Research:

- Nanomaterials for sensors, polymer technology, material characterisation, composite materials



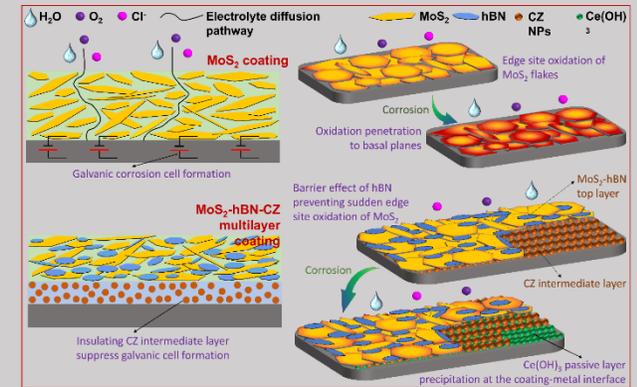
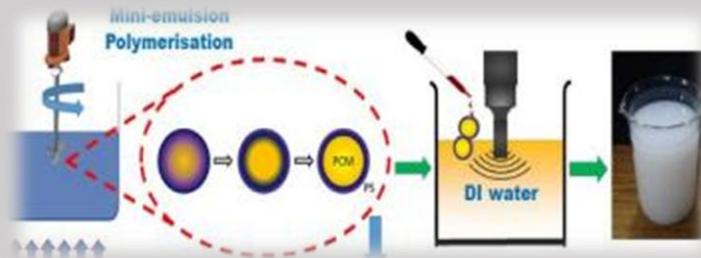
Name : Dr. Sajith V
 Qualification: Ph.D. (NIT Calicut)

Designation : Professor
 Contact Number : +91-495-228-6525, 9446361125
 Email : sajith@nitc.ac.in
 Website address : <https://nitc.ac.in/schools/school-of-materials-science-and-engineering/faculty-and-staff/faculty/a560bde9-0be3-4a8f>

Orcid ID : 0000-0002-9574-9182

Areas of Research:

- Phase change materials
- Corrosion and wear resistant coatings
- Thermal management of Electronics
- EV Battery cooling
- Toxicity studies of Micro/nano plastics
- Exhaust gas treatment technologies
- Nano coolants/Nano lubricants



Collaborators



30

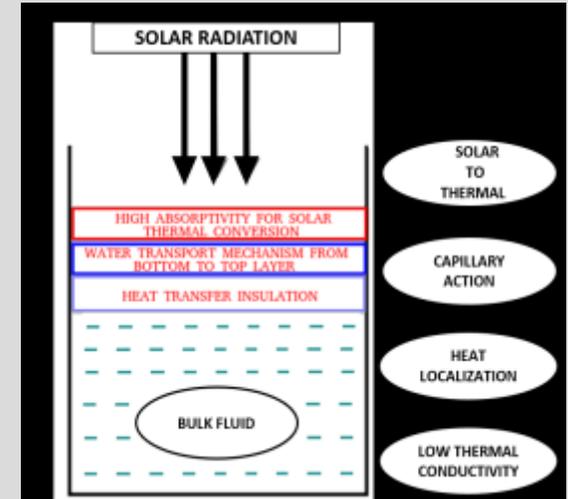
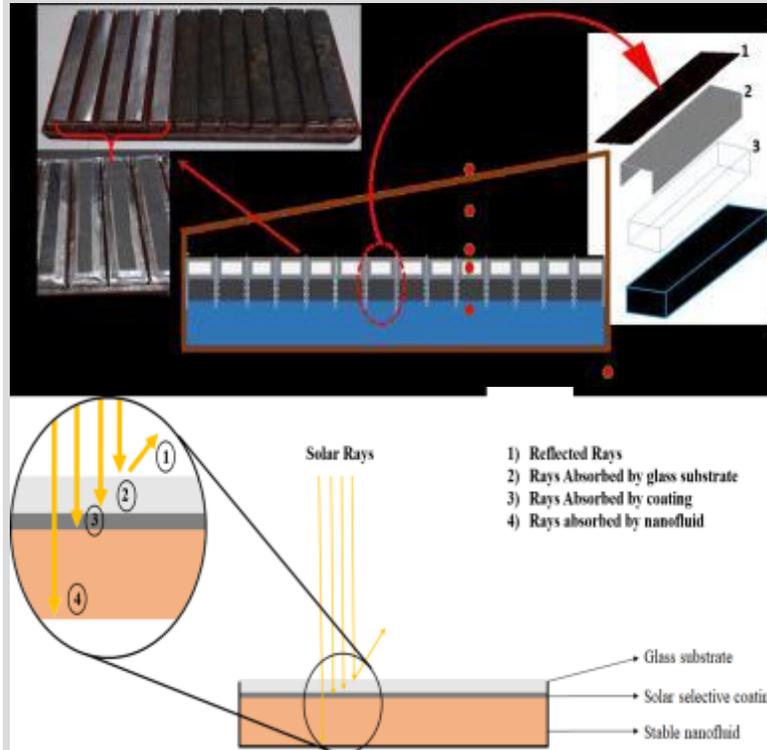




Name : SHIJO THOMAS
 Qualification : Ph.D., (NIT CALICUT)
 Designation : ASSOCIATE PROFESSOR
 Contact Number : 9446276409
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 Website address : <https://nitc.ac.in/schools/school-of-materials-science-and-engineering/faculty-and-staff/faculty/32086a1c-5a4c-4e2c-ad95-93a808515a70>
 Google Scholar ID : HNAttQ4AAAAJ
 Scopus ID : 57216961335
 Orcid ID : 0000-0003-3070-255

Area of Research:

- Applications of nanofluids and modified surfaces in solar thermal systems and heat transfer.
- Desalination using multilayer floating absorber materials.
- High Entropy Nanomaterials for Solar fuels from waste water and CO2





Name: Dr. Aparna Zagabathuni
 Qualification: Ph.D.(IIT Kharagpur)

Designation : Assistant professor (Level-11)
 Contact Number :9734533473
 Email :aparnazagabathuni@nitc.ac.in
 Website address :
<https://nitc.ac.in/department/school-of-materials-science-and-engineering/faculty-and-staff/faculty/c5834f28-09d2-492e-8049-f78cbbbb2b16>
 Google Scholar ID : ljoVjRIAAAJ
 Scopus ID : 57201340995
 Orcid ID : 0000-0002-4188-1102

Area of Research:

- Nanofluids
- Metamaterials
- 3D printing
- MEMS based Artificial cochlea
- Biomaterials and biomedical devices

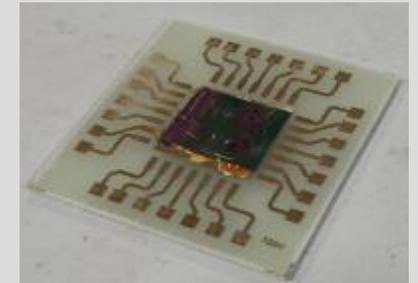
Automated electrode array insertion tool for cochlear implant surgery



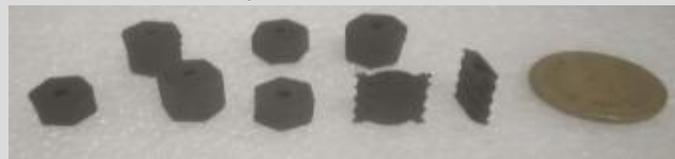
3D printed human cochlea



MEMS based Artificial Basilar Membrane



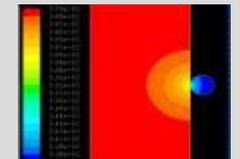
3D printed Metamaterials



Strength of Metamaterial



Heat transfer of nanoparticle using FEM

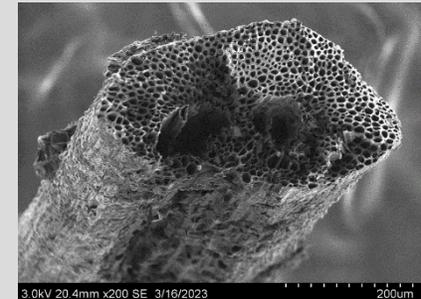
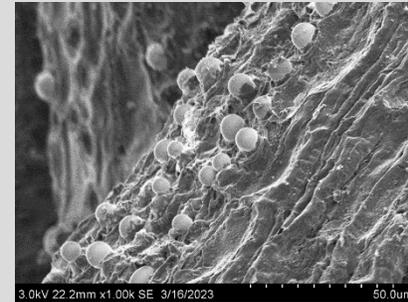
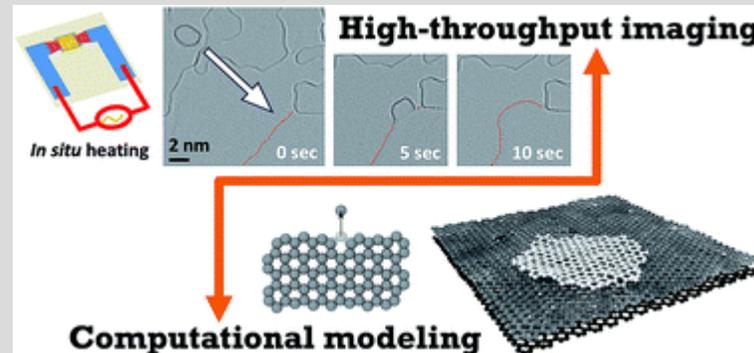


Area of Research:



Name : Shyam Kumar C N
Qualification : Ph.D., (Technical University of Darmstadt)
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Google Scholar ID : [Google Scholar Link](#)
Scopus ID :
Orcid ID : 0000-0001-6946-8726

- My research interest centers around in situ/operando characterization to explore the structure-property-performance paradigm primarily in carbon nanomaterials, as well as in other materials systems.





Name : **Dr. Hanas T**
 Qualification : Ph.D. in Materials Science, (IIT Madras)

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 Website address : <https://nitc.ac.in/schools/school-of-materials-science-and-engineering/faculty-and-staff/faculty/31821e0f-50c4-4842-bca8-40ffc8d6b7fc>
 Scopus ID : 23970750800

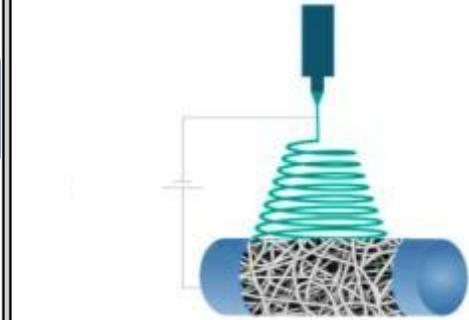
Areas of Research:

- Surface Coatings and Modifications
- Biodegradable Materials
- Biodegradable Metallic Implants
- Severe Plastic Deformation
- Electrospinning
- Nanocomposites
- Medical Materials
- Affordable Healthcare

Degradable metallic implant



Green Electrospinning



Light Metals for structures

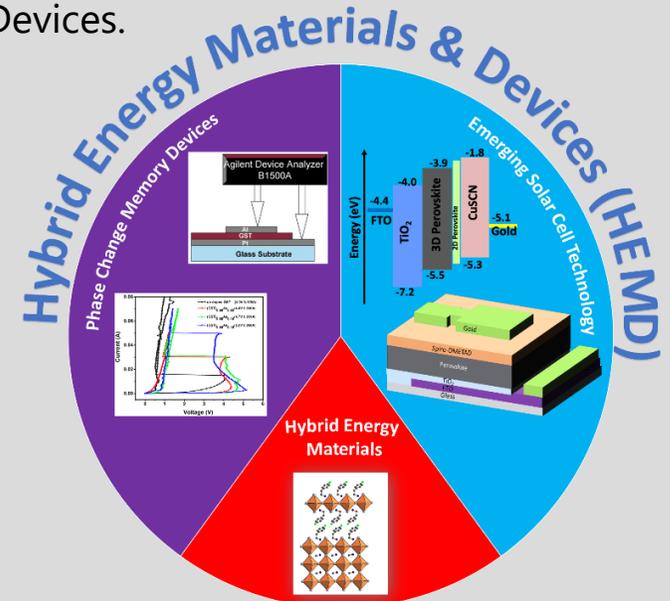


Area of Research:

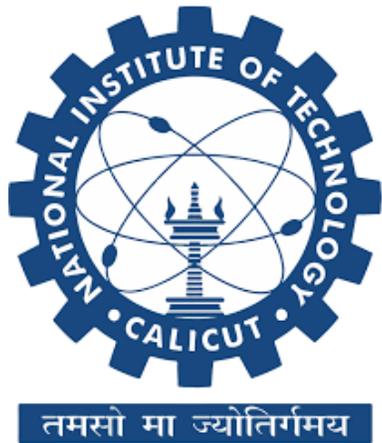
- Experienced research scientist with a demonstrated history of working in the materials development, device physics and Solar PV cells(Perovskite Solar cells, CZTSSe solar cells). Skilled in materials analysis, devices Fabrication, thin film Research and Development (R&D) as well as Project Preparation and Project Management. Currently working on Perovskite Solar Cells, Phase Change Memory Materials and Devices.



Name : Dr. Vinod E. Madhavan
 Qualification : Ph.D. (Indian Institute of Science, Bangalore)
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 Google Scholar ID : [Google Scholar Link](#)
 Scopus ID : 24400270600
 Orcid ID : 0000-0002-8501-8351



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Mechanical
Engineering

LIST OF FACULTY

- [Dr Jose Mathew](#)
- [Dr. R. Manu](#)
- [Dr. R Sridharan](#)
- [Dr.V. Madhusudanan Pillai](#)
- [Dr. Sudheer. A. P](#)
- [Dr. Amit Kumar Singh](#)
- [Dr. ARUN P](#)
- [Dr. G. Varaprasad](#)
- [Dr. Jagadeesha T](#)
- [Dr. Jinu Paul](#)
- [Dr. M Srinivas](#)
- [Dr. Murali K P](#)
- [Dr. Nitinkumar D](#)
- [Dr.Dhanish P. B.](#)
- [Dr. Saleel Ismail](#)
- [Dr. T.J. Sarvoththama Jothi](#)
- [Dr. Vinay V. Panicker](#)
- [Dr. A. M. Sreenath](#)
- [Dr. Sai Saketha Chandra Athkuri](#)
- [Dr. A V S S H Sravan Kumar](#)
- [Dr. Allen Anilkumar](#)
- [Dr. Amit Kumar Rai](#)
- [Dr. Arindam Bhattacharjee](#)
- [Dr. Arun Babu K](#)
- [Dr. Basil Kuriachen](#)
- [Dr. Deepak Lawrence K](#)
- [Dr. Devendra K Yadav](#)
- [Dr. Ilango M](#)
- [Dr. Jacob Koshy Mulamootil](#)
- [Dr. Jithin M](#)
- [Dr. Ratna Kumar K](#)
- [Dr. Mohammed Rashad K](#)
- [Dr. Pradeepmon T.G.](#)
- [Dr. Pranay Vinayak](#)
- [Dr. R. Prabhu Sekar](#)
- [Dr. Rohinikumar B](#)
- [Dr.Sajan T John](#)
- [Dr. Sandip Rudha Budhe](#)
- [Dr. Sangeeth K](#)
- [Dr. Sanjeev Kumar Manjhi](#)
- [Dr. Sharu B K](#)
- [Dr. Sujith Kumar CS](#)
- [Dr. Sumer B Dirbude](#)
- [Dr. VIJAYARAJ K](#)
- [Dr. Vikash Kumar](#)
- [Dr. Vineesh K P](#)
- [Dr. Vinod Kumar Sharma](#)



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mechanical Engineering

Research Areas :



Name: Dr Jose Mathew
Ph. D. (IIT Bombay)

Lab: <https://www.amc.nitc.ac.in/>

Metal Cutting Studies: Micro-Nano Machining,
Machining of FRP composites, AM/3D printing,
etc.

CAI, CAD/CAM: CNC Machines, etc.

Designation: Chairperson, Centre for Industry
Institutional Relations (CIIR) &
Professor (HAG)

Ph: 0495-2286405, 9447416639

[Email: josmat@nitc.ac.in](mailto:josmat@nitc.ac.in)

ORCID Id: <https://orcid.org/0000-0001-7126-882X>

Scopus Id: 57202195509

Google Scholar Id: 2VIW6WcAAAAJ

<https://scholar.google.co.in/citations?user=2VIW6WcAAAAJ>

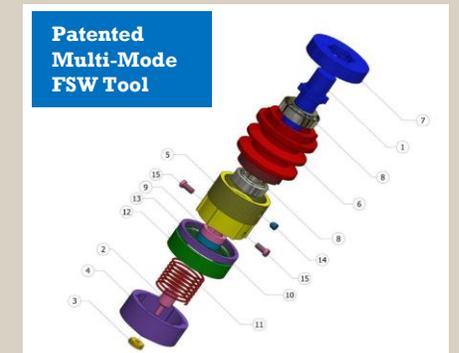
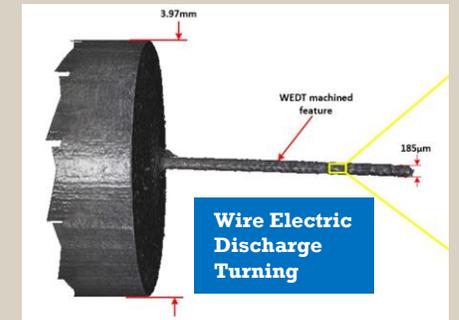
Web: <https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/eb8313e6-e2ff-4987-8030-46bcd11c1c7b>



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<https://nitc.irins.org/profile/53776>
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<https://scholar.google.com/citations?hl=en&user=DA MluQoAAAAJ>
Scopus ID : [:8603139900](https://scopus.org/authorid/8603139900)
Orcid ID : [:0000-0002-8229-1344](https://orcid.org/0000-0002-8229-1344)

Area of Research:

- Non-traditional Machining
- Friction Stir Welding
- CAD/CAM





Name: R Sridharan

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Designation : Professor (HAG)

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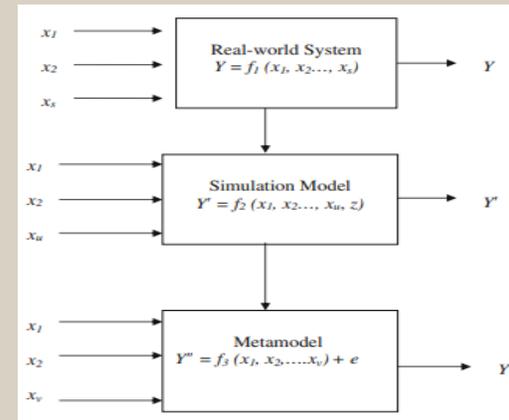
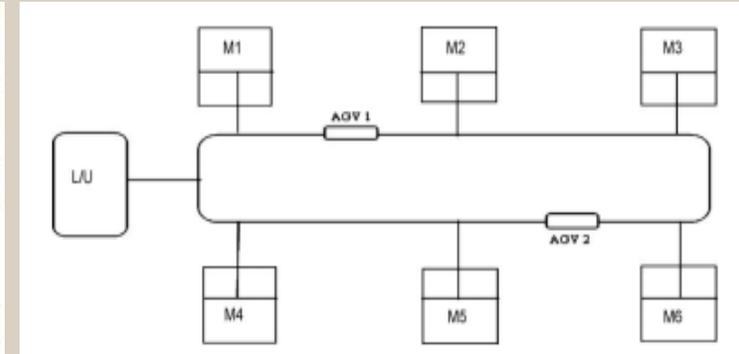
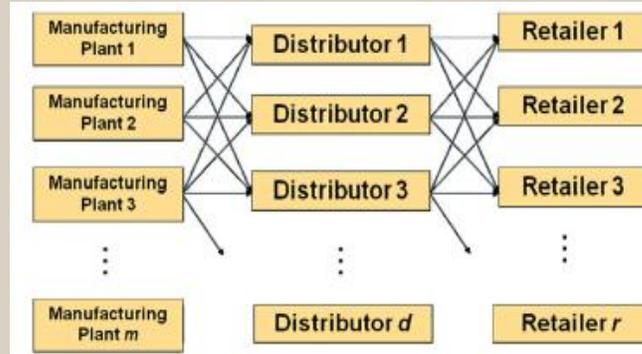
Google Scholar ID :5gy4PEQAAAAJ

Scopus ID :[7005923110](#)

Orcid ID :0000-0002-0186-6442

Areas of Research:

- Decision Modelling, Simulation Modelling and Analysis, Operations Management, Supply Chain Management, Total Quality Management, Indian Knowledge Systems.



गोपीभाग्य मधुव्रातः श्रृंगशोदधि संधिगः

Go pi bha gya ma dhu vra ta srin gi so da dhi san dhi ga
 3 1 4 1 5 9 2 6 5 3 5 8 9 7 9 3

खलजीवितखाताव गलहाला रसंधरः

Kha la ji vi ta kha ta va ga la haa laa ra san dha ra
 2 3 8 4 6 2 6 4 3 3 8 3 2 7 9 2

$\pi = 3.1415926535897932384626433832792$



Name: V. Madhusudanan Pillai

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Google Scholar ID :[Madhusudanan Pillai V - Google Scholar](https://scholar.google.com/citations?user=Madhusudanan+Pillai+V)

Scopus ID :
<https://www.scopus.com/authid/detail.uri?authorId=57194773139>

Orcid ID :<https://orcid.org/0000-0001-6702-7994>

Area of Research:

- Lean Manufacturing Management
- Green/Sustainable Supply Chain Management and Supply Chain Operation Simulation
- Material Requirements Planning, Scheduling, Facility Layout Planning, and Inventory Management
- Annualised Hours Planning, and Ergonomics
- Machine Learning and Blockchain applications in Supply chain management.

[Note on Technologies developed](#)

[Home Pages of Software Packages/Teaching Lab Exercises developed](#)

[SUPPLY CHAIN MANAGEMENT SIMULATION - Basic details, training outcomes, license fee details](#)



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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/8eb95fa4-0e19-4246-aa46-75095a3ec8d8>

Google Scholar ID:
https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=iikzCB4AAAAJ&sortBy=pubdate

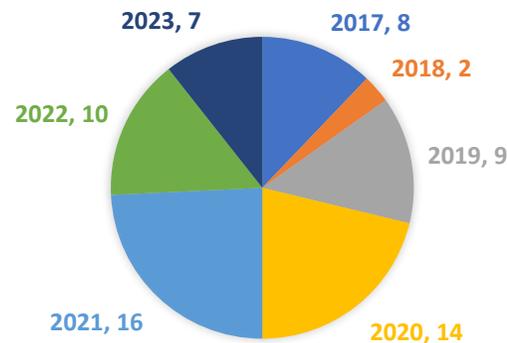
Scopus ID :49362153500

Orcid ID :<https://orcid.org/0000-0003-0644-3702>

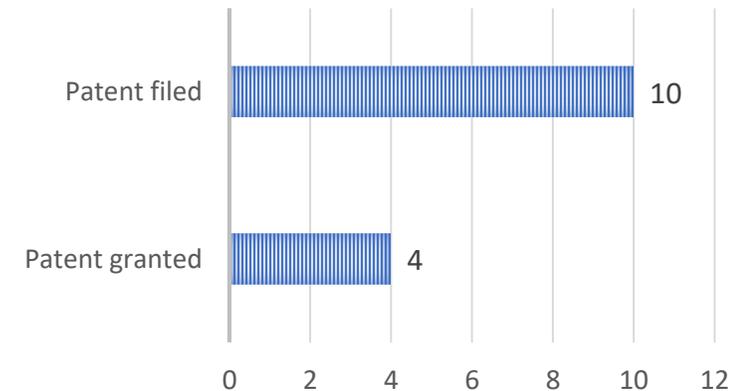
Area of Research:

- Robotics: Kinematics, Dynamics, and Control
- Serial and parallel manipulators
- Mobile robotics: Humanoid robot, Wheeled and tracked robots
- Assistive technology: Robotic device for rehabilitation, Exoskeleton
- AI, IoRT
- Agricultural robotics
- External research grant: 110 lakh+

NO. OF PUBLICATIONS



DETAILS OF PATENT





Name: Amit Kumar Singh

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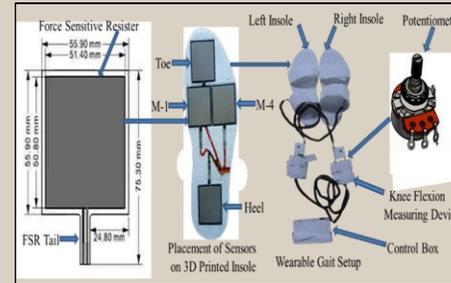
Website address :
<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/page/2>

Scopus ID : [Qd24uwwAAAAJ](https://scopus.org/authorid/0000-0001-9088-9088)

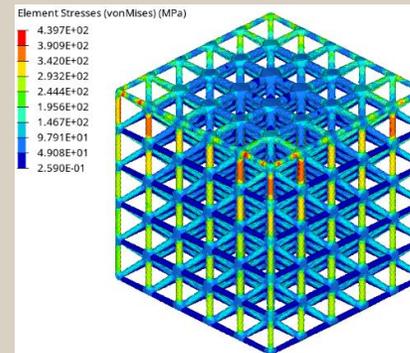
Google Scholar ID :
https://scholar.google.co.in/citations?hl=en&user=Qd24uwwAAAAJ&view_op=list_works&gmla=AJsN-F4FZrrRh

Area of Research:

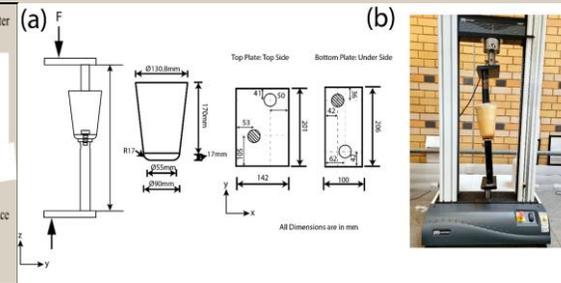
- Bio Medical Engineering, 3D Printed Medical Devices, Prosthetics and other Assistive Devices.
- Design for Additive Manufacturing, Digital Twin for Additive Manufacturing



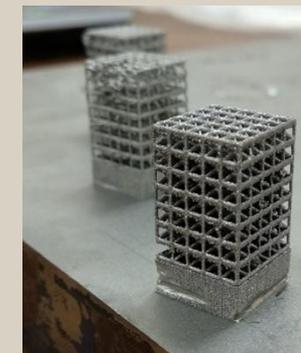
Wearable Gait Setup



Design for Additive Manufacturing- Lattice Structures



Structural Testing of Prosthetics



Wearable Exoskeleton



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mechanical Engineering

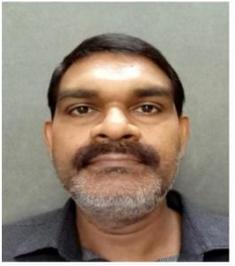


Name: ARUN P
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Scopus ID : 23984365900
Google Scholar ID
<https://scholar.google.co.in/citations?user=JVUgGj4AAAAJ>
Orcid ID :
<https://orcid.org/0000-0002-5061-1913>

Area of Research:

- Mathematical modeling and optimal thermal design of various energy systems
 - ❖ PV-battery and PV-Thermal hybrid systems
 - ❖ Data driven modelling of conventional and renewable energy systems
- Renewable energy utilization:
 - ❖ Thermo-chemical conversion of biomass for energy applications- gasification, pyrolysis
 - ❖ Low and medium temperature solar thermal systems-solar drying, desalination



Name: Dr. G. Varaprasad

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Google Scholar ID :
<https://scholar.google.com/citations?user=N0x66dsAAAAJ&hl=en&oi=ao>

Scopus ID :

ORCID ID : 0000-0003-4288-4185

Areas of Research:

- Marketing Research
- Consumer Behavior
- Lean Six Sigma
- Ergonomics
- Adoption Studies
- Operations Management



Name: Dr. Jagadeesha T

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Scopus ID : [35590009200](https://scopus.com/authorid/35590009200)

Google Scholar ID :
<https://scholar.google.com/citations?hl=en&user=uGu8tTgAAAAJ>

orchid id <https://orcid.org/0000-0003-2072-4391>

Area of Research:

- Advanced Machining and Manufacturing Processes: Design and applications.
- Additive Manufacturing : Simulations, Fabrication and Modelling
- Smart materials and fabrication of devices and structures
- Biomaterials , Nano materials and Surface Coatings
- Industrial Tribology
- Smart factories and Digital manufacturing
- Processing of Electronic Materials.
- Beam Processes (Laser, Ion, Electron), modelling and its interactions with material.



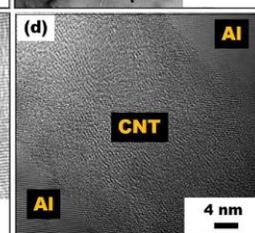
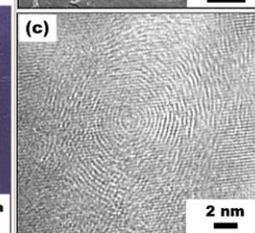
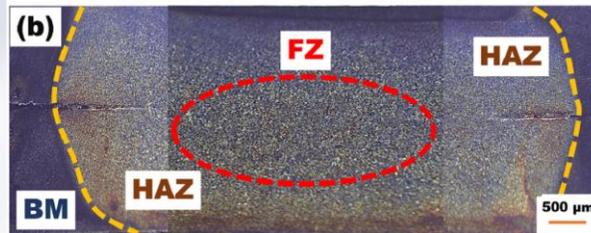
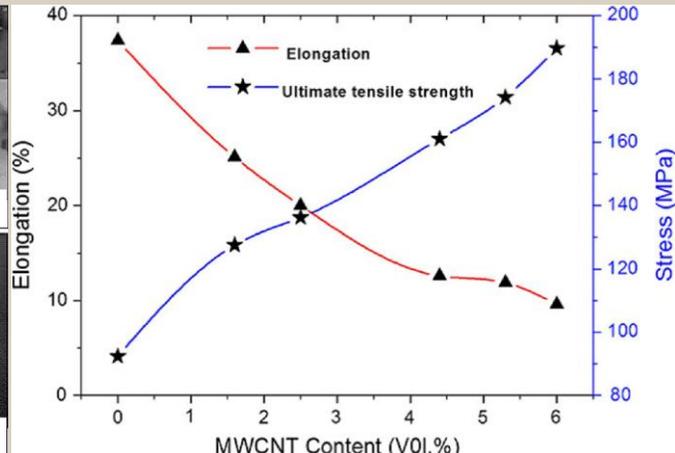
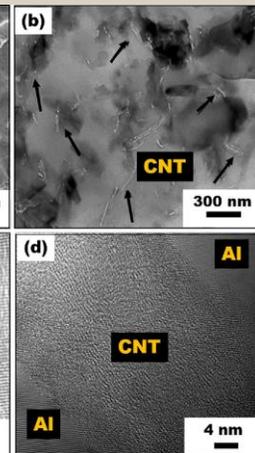
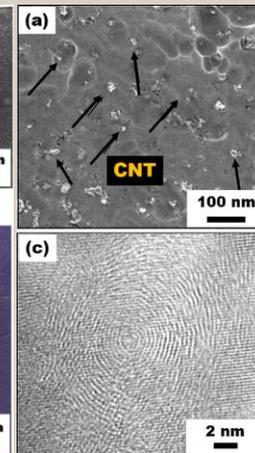
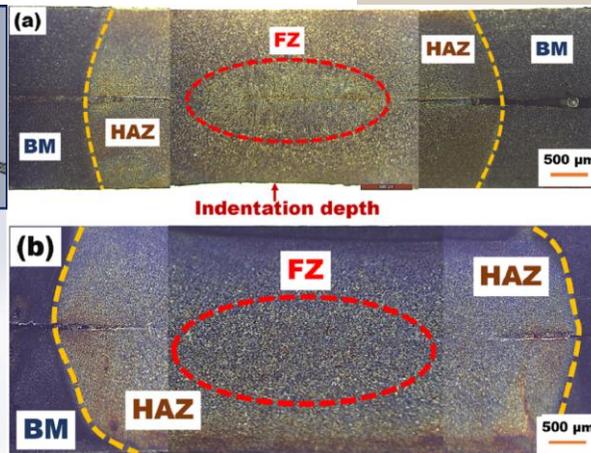
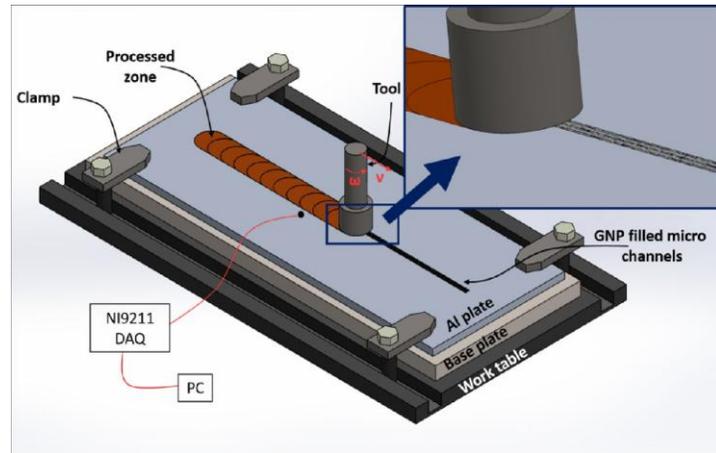
Name : Dr. Jinu Paul
 Qualification : Ph.D., (NTU Singapore)

Designation : Associate Professor
 Contact Number : 9002279620
 Email : jinupaul@nitc.ac.in

Area of Research:

- Welding
- Thin/thick Coatings
- Surface Engineering
- Composites
- Characterization

Citations & h-index (May 2023)





Name: M Srinivas

Qualification: Ph.D., (NIT Calicut)

Designation : Associate Professor

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Email : msrinivas@nitc.ac.in

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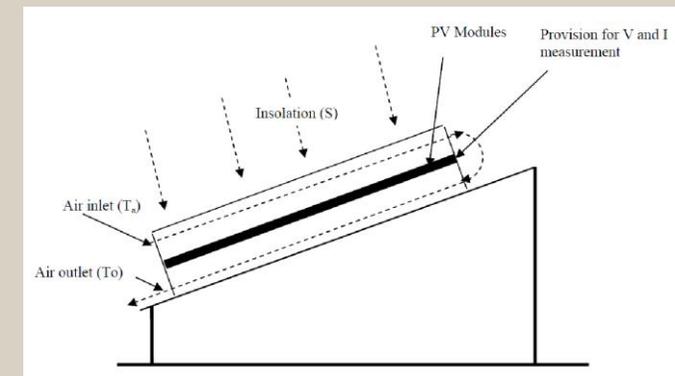
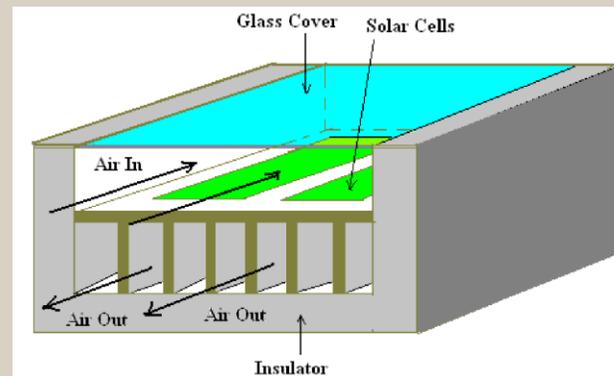
Google Scholar ID : TNvngJkAAAAJ

Scopus ID : 57190847688

Orcid ID : 0000-0001-6906-5556

Area of Research:

- Alternative energy technology
- Hybrid energy systems
- Solar thermal systems





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Google Scholar ID :OQo54KwAAAAJ

Scopus ID :8676373200

Orcid ID :0000-0001-5210-0335

Area of Research: Electronic Materials

Development of Microwave Substrates for RF circuit applications:

Tuning of electrical and magnetic parameters for the enhancement of RF device performance

Flexible, bio-compatible and high temperature substrates – Polymer and ceramic matrix composite substrates

Magneto-dielectric RF absorbers



Flexible bio-compatible RF substrate and metamaterial based antenna fabricated on the proprietary substrate

Area of Research:

- ❑ Mechanical and heat operated refrigeration systems
- ❑ Compressed gas energy storage
- ❑ Solar thermal energy
- ❑ Thermal management using phase change materials



Name : Dr. Nitinkumar D. Banker

Qualification: Ph.D., (IISc, Bangalore)

Designation : Associate Professor

Contact Number : 9958392338

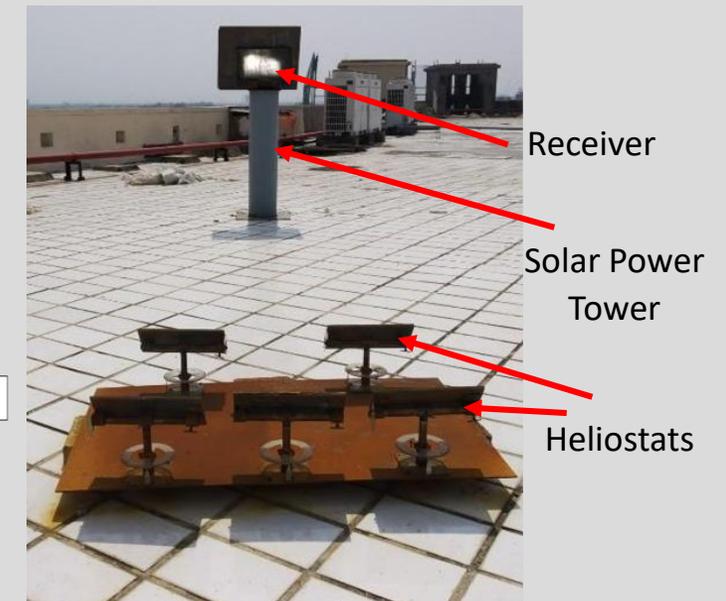
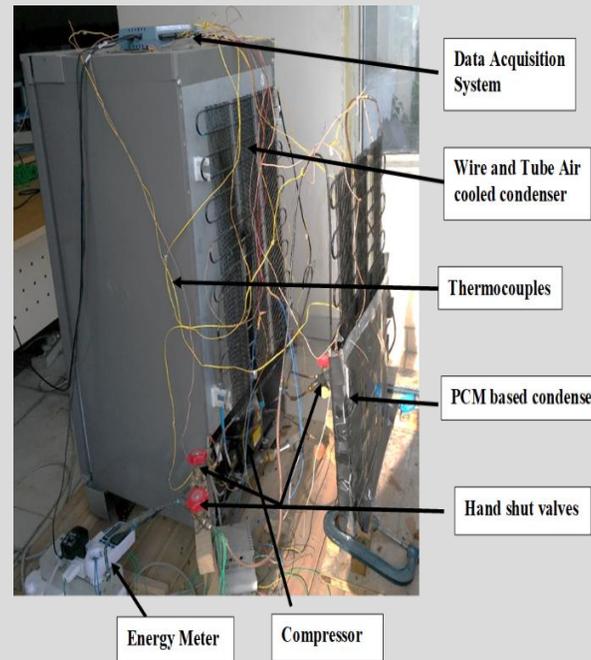
Email : nitinkumardb@nitc.ac.in

Website address :

Google Scholar ID : 6IVZIIIMAAAJ

Scopus ID : 6603055383

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Dhanish P. B.

PhD NIT Calicut

Associate Professor

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Email: dhanish@nitc.ac.in

Website: www.dhanish.in

Google Scholar ID: Dhanish P. B.

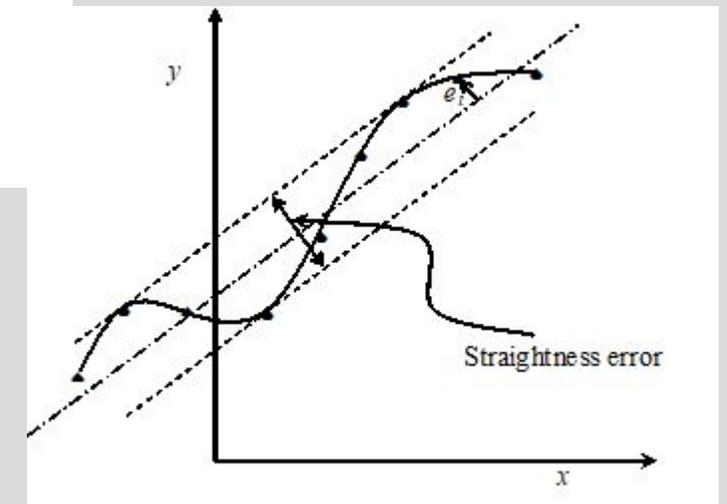
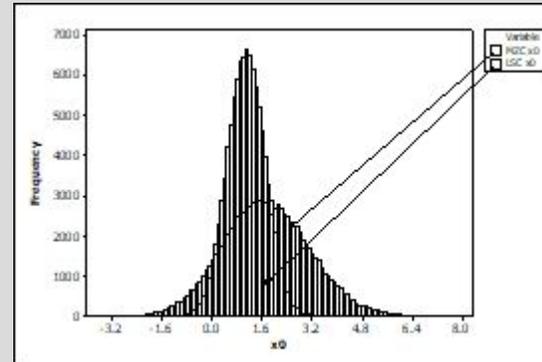
Scopus ID: 6506185226

Orcid ID: [0000-0002-7727-1031](https://orcid.org/0000-0002-7727-1031)

Area of Research:

Metrology –

- Algorithms for form error
- Computation of uncertainties





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Google Scholar ID : Saleel Ismail
 (https://scholar.google.com/citations?user=xyrDHhEAAAAJ&hl=en)

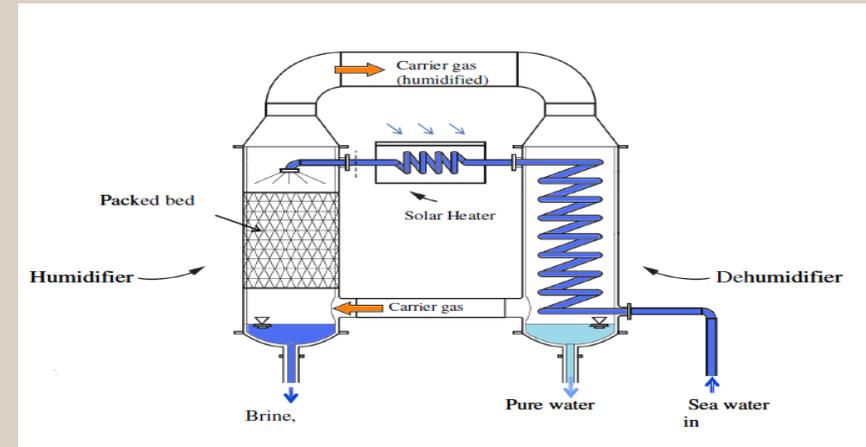
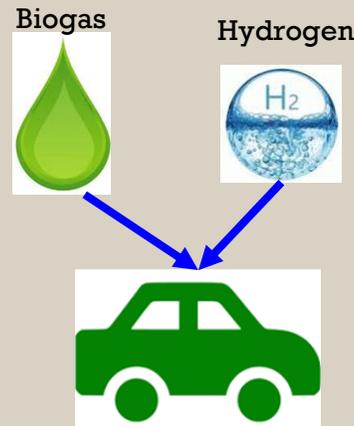
Scopus ID : 36622616400

Orcid ID : 0000-0002-5849-4571

Area of Research:

- Internal combustion engines
- Solar desalination systems

- Use a graphical representation describing your research(one or two images), if interested.



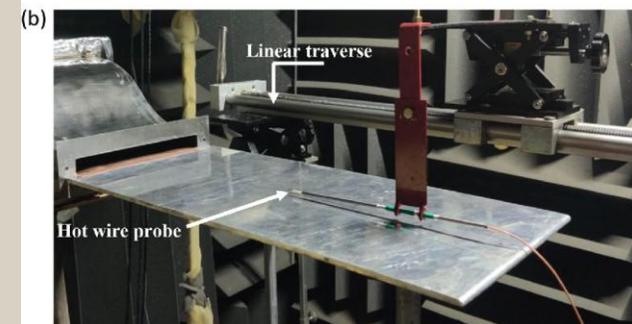
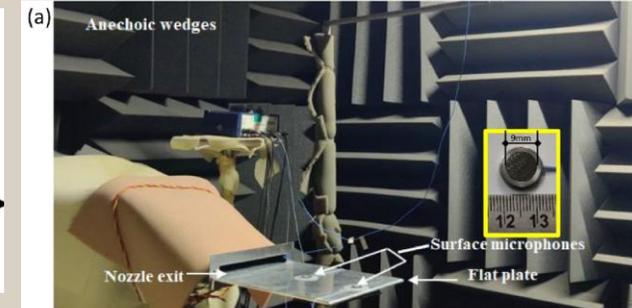
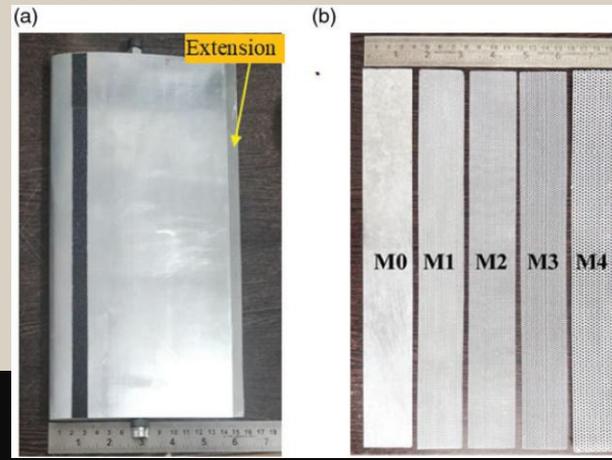
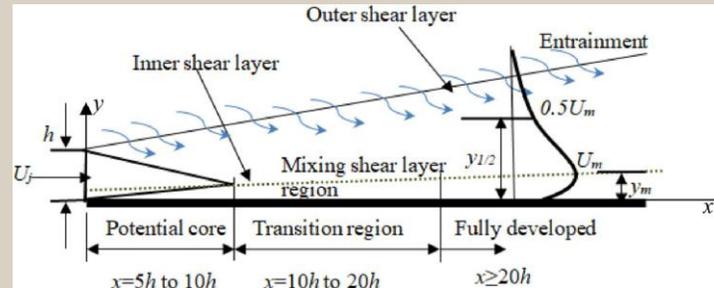


Name : T.J. Sarvoththama Jothi
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Designation : Associate Professor
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 Mail Id : tjsjothi@nitc.ac.in
 Web Address : <https://nitc.ac.in/search?search=jothi>
 Google Scholar : <https://scholar.google.com/citations?user=8lTajj4AAAJ&hl=en>
 Scopus Id : [22950881000](https://orcid.org/0000-0002-9674-9045)
 Orcid id : <https://orcid.org/0000-0002-9674-9045>

Area of Research:

- Write two to three points about your area of expertise/Current area of work.
 I am working in the fields of Aeroacoustics, Combustion, and noise control of different engineering systems.
- Use a graphical representation describing your research (one or two images), if interested.





Name: Dr. Vinay V. Panicker

Qualification: Ph.D., (NIT Calicut)

Designation : Associate Professor

Contact Number : 9447597959 (Mob.)/
0495-2286466 (O)

Email : vinay@nitc.ac.in

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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/04f6f065-8f63-4c24-b1e0-2b464b2eb478>

Google Scholar ID : Vinay V. Panicker

Scopus ID : 54946804400

ORCID ID : 0000-0003-2167-3653

Areas of Research:

- Logistics and Supply Chain Management
- Freight Transportation
- Multi-modal Transportation
- Ergonomics and Human Factors in Engineering Design
- Six Sigma
- Operations Research and Optimization Techniques
- Operations Management
- Multi-Criteria Decision Making Techniques

Area of Research:

- Fatigue of Materials
- FEM Modelling of Composite materials
- Impact modelling on composite material
- Repair of damaged composite components



Name: A. M. Sreenath

Qualification: M Tech(IIT Madras)

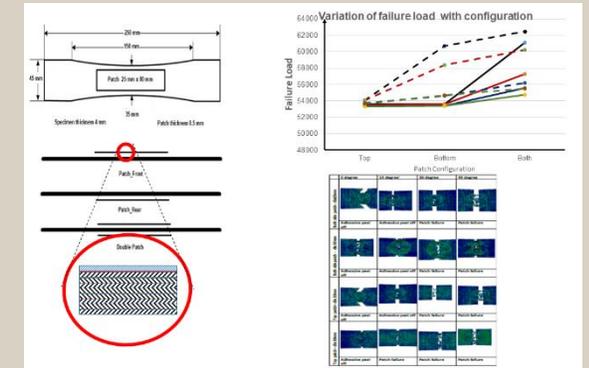
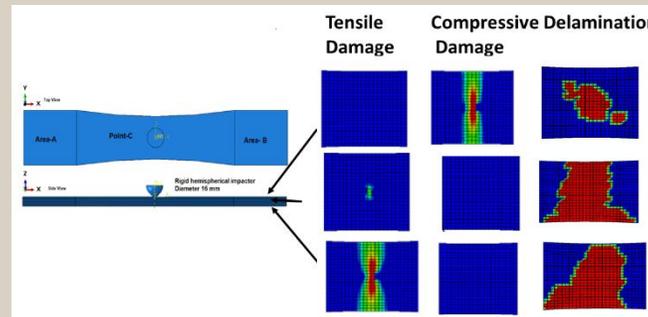
Designation : Assistant Professor, NIT Calicut

Contact Number : 9446254691

Email : Sreenath@nitc.ac.in

Scopus ID: : 57211751349

Orcid ID :0000-0002-5299-2537





Name: Dr. Sai Saketha Chandra

Qualification: Ph.D., (IIT Hyderabad)

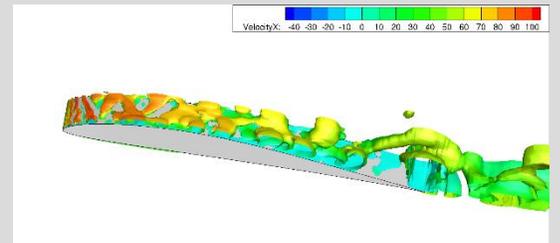
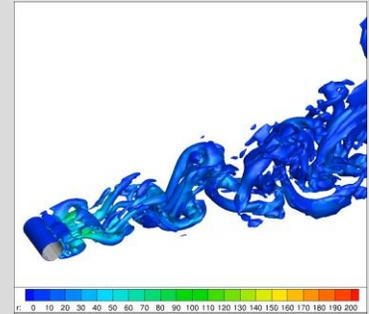
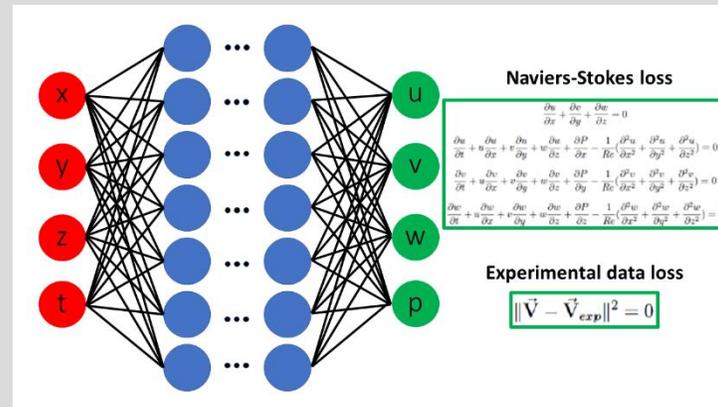
Designation : Assistant Professor
 Contact Number : 9848820753
 Email : saisakethachandra@nitc.ac.in
 Google Scholar ID : See below
 Scopus ID : 57218566817
 Orcid ID : 0000-0002-8391-9893

LinkedIn :
<https://in.linkedin.com/in/saketha-chandra-athkuri-4161b193>

Scholar ID:
https://scholar.google.com/citations?hl=en&user=f-T38KQAAAAJ&view_op=list_works&gmla=AJ1KiT3e1UnFeJOU8_kGpYBhNmgJIKbxMJPC0Nyggt3aGvclRnGvD3LO7Ae6eiiJsePOd22SOqohgL6m_04HfO

Area of Research:

- Application of Artificial Intelligence (AI) and Machine learning to fluid flows
- Data driven turbulence modelling
- Physics Informed Neural Networks (PINNs) for fluid flows
- Application of Deep learning to fluid flows
- Transition modelling
- CFD solver development for compressible flows





Name: A V S S H Sravan Kumar
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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/4286cf95-e381-4f68-bfae-b8220a67f4ca>

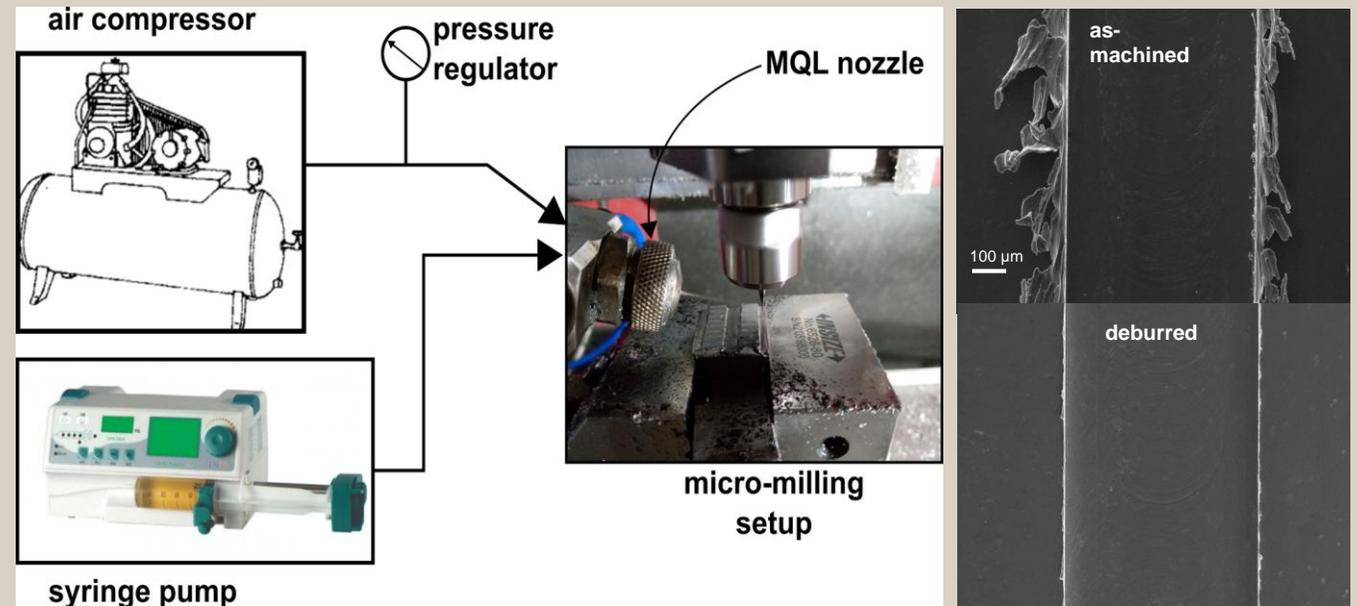
Google Scholar ID : y-bALSUAAAAJ&hl

Scopus ID : 57218172861

Orcid ID : 0000-0002-6101-1358

Area of Research:

- Micro-machining of difficult-to-machine metals and alloys like Ti-6Al-4V.
- Post-machining finishing and deburring operations
- Additive manufacturing





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലികറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



SCIENCE AND ENGINEERING

Areas of Research:

Vibrations and Structural Dynamics

Experimental Dynamics

Coriolis Vibratory Gyroscopes

Parametrically-Excited Systems

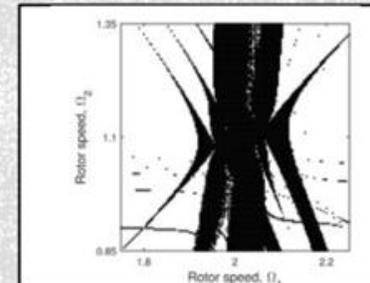
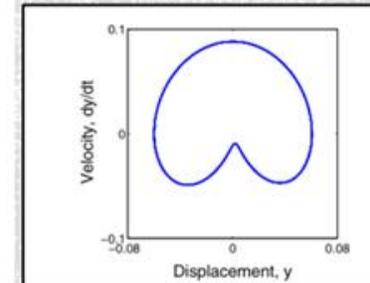
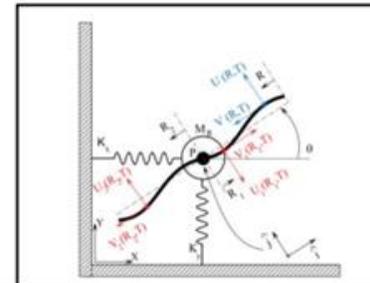
Ground Resonance

'Dithered' Systems: Laser Gyroscopes

Axi-Symmetric Structures

Electrostatically Actuated Dynamics

Name : Allen Anilkumar
Qualification : Ph.D., (IIT Bombay)
Designation : Assistant Professor
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<https://scholar.google.com/citations?user=FwIwh1wAAAAJ&hl=en&oi=ao>
Scopus ID :
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ORCID ID : <https://orcid.org/0000-0003-4615-2635>





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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/53c9f213-1f1f-483f-ac42-df153df61569>

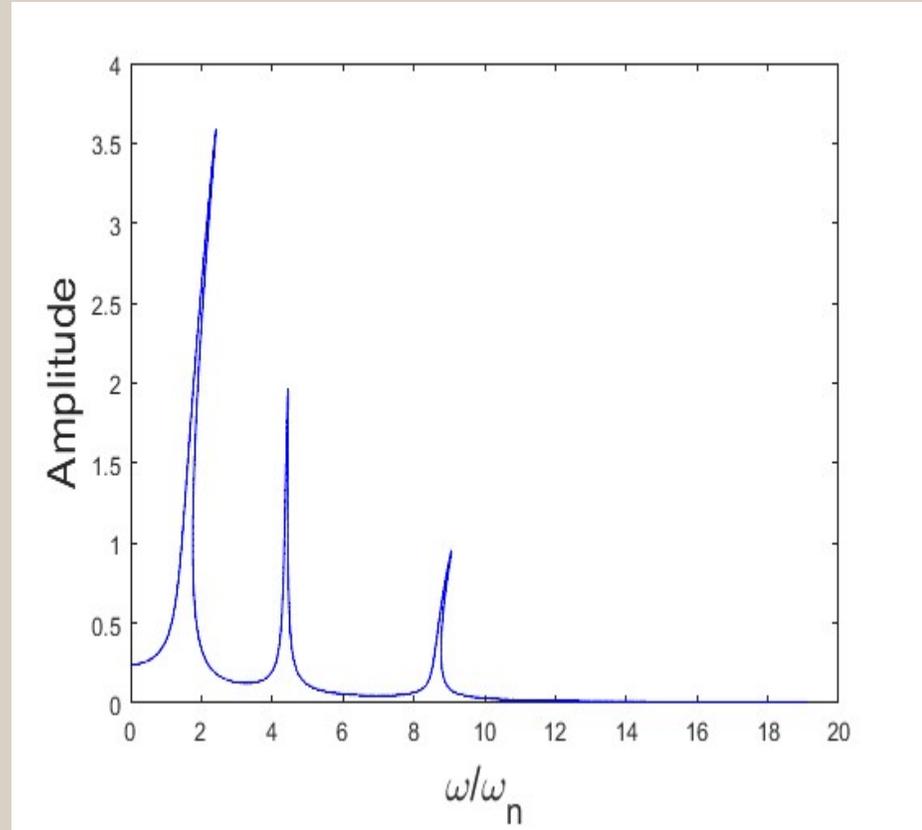
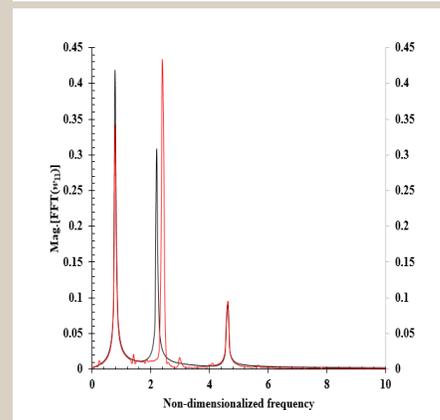
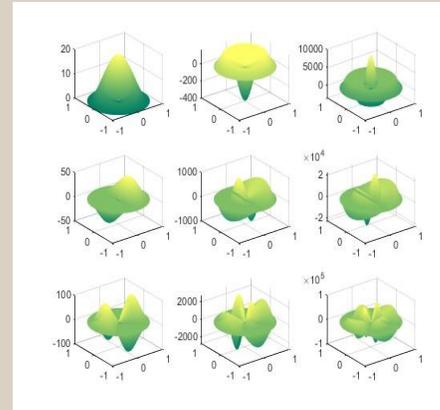
Google Scholar ID :rai.knit2007@gmail.com

Scopus ID :

Orcid ID :

Area of Research:

- Dynamics and vibration of structures, functionally graded materials, computational mechanics (Finite element analysis), composite materials.





Name : Dr. Arindam Bhattacharjee
 Qualification: Ph.D., IIT Kanpur

Area of Research:

- Dynamics and Control
- Vibration
- Nonsmooth system
- Optimization

Designation : Assistant Professor

Contact Number : 7992011945

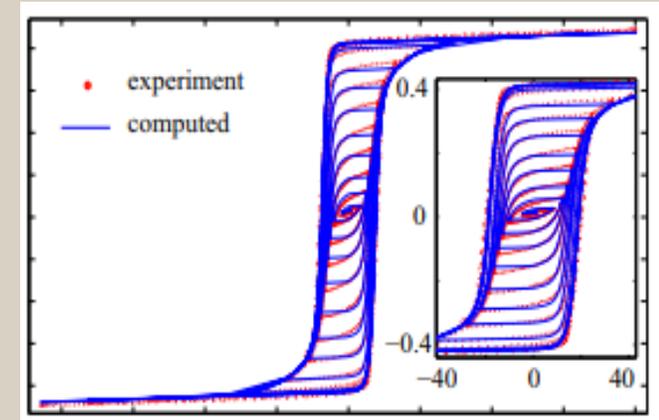
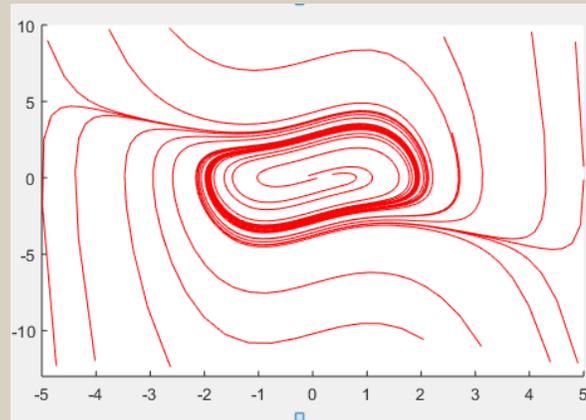
Email : arindambhattacharjee@nitc.ac.in

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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/1c6339ba-8883-43a5-a26a-bc5e500da7de>

Google Scholar ID :
<https://scholar.google.com/citations?user=8T1gMoAAAAAJ&hl=en>

Scopus ID :

Orcid ID :



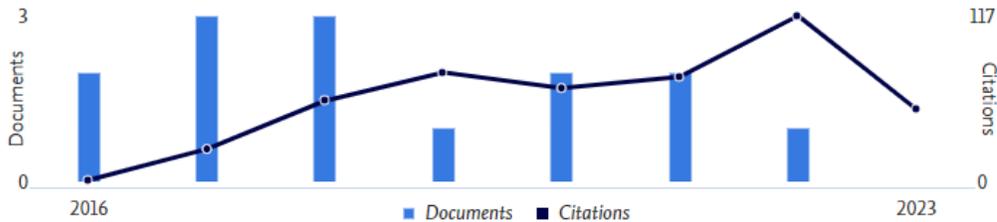


Name: Dr. Arun Babu K
 Qualification: MS (IITM), Ph.D. (IITKGP) (Institute)

Designation : Assistant Professor, NIT Calicut
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 Orcid ID : <https://orcid.org/0000-0002-4860-6103>
 Google Scholar ID : <https://scholar.google.co.in/citations?user=Xuw-rPIAAAAJ&hl=en>

Document & citation trends

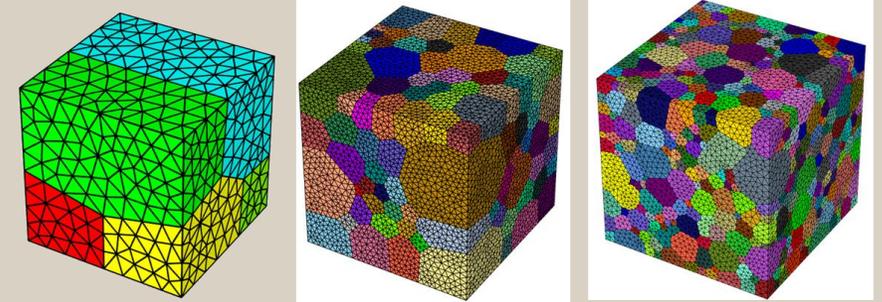
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Area of Research:

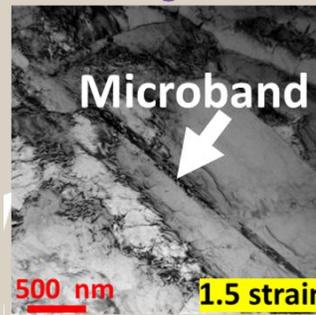
- Thermomechanical processing of metals and alloys
- Microstructure characterization (using EBSD) and texture analyses
- Microstructure modeling and microstructure synthesis
- Texture simulation

Microstructure with a mean grain size of ~8 μm + meshing for different RVEs



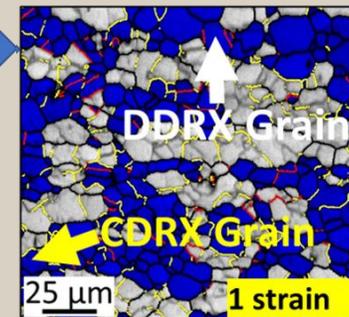
Microstructure Synthesis

Coarse-grained



DDR+CDRX
 Ultra-fine substructure formation and CDRX

Fine-grained



Microstructure Characterization



Name: Dr. Basil Kuriachen

Qualification: Ph.D., (NITC)

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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/e5f74083-0a65-4070-b08b-a74dc6c903f7>

Google Scholar ID :

<https://scholar.google.com/citations?user=O2KCeNsAAAAJ&hl=en>

Scopus ID : 55921560000

Orcid ID : <https://orcid.org/0000-0002-0664-0792>

Area of Research:

- Conventional and Advanced Machining
- Tribology
- Metal Additive Manufacturing
- Surface Modifications Processes
- Micromanufacturing
- Precision and ultra precision machining
- Modeling and analysis
- Surface coatings
- Friction stir welding and processing



Basil Kuriachen ✎

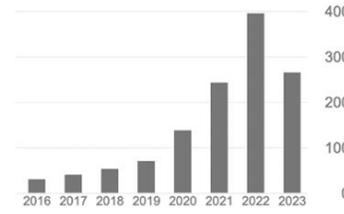
Assistant Professor, [National Institute of Technology Calicut](#)
 Verified email at nitc.ac.in - [Homepage](#)

[Advanced Manufacturing](#) [Additive Manufacturing](#) [Tribology](#) [Surface Modification](#)

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i10-index	30	30



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TITLE	CITED BY	YEAR
<input type="checkbox"/> Effect of heat treatment and cryo-treatment on dry tribological behavior of Inconel 718 fabricated using laser powder bed fusion J Joshy, B Kuriachen Wear 523, 204819		2023
<input type="checkbox"/> Influence of heat-treatment and cryo-treatment on high temperature wear performance of LPBF Inconel 718 J Joshy, B Kuriachen Wear 522, 204681		2023
<input type="checkbox"/> Effect of Low Welding and Rotational Speed on Microstructure and Mechanical Behaviour of Friction Stir Welded AZ31-AA6061-T6 VP Singh, D Kumar, B Kuriachen Transactions of the Indian Institute of Metals, 1-9		2023



Area of Research:

Computational Metrology, Additive Manufacturing, Digital thread and Industry 4.0

Computational metrology: Development of new algorithms and methods in metrology for inspection and evaluation of geometrical products specifications related to surface texture and form errors

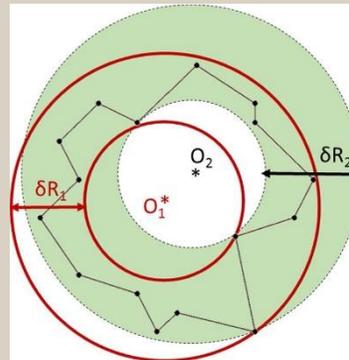
Additive Manufacturing: Modification of 3D files and build files of additive manufacturing to improve the geometric fidelity and part quality of additive manufactured parts

Digital thread and Industry 4.0: Extract the product manufacturing information (PMI) from STEP files of CAD geometry to automate the down stream design and manufacturing applications such as tolerance analyses, CNC code generation, direct FEM simulation from CAD, fixture design, process planning generation

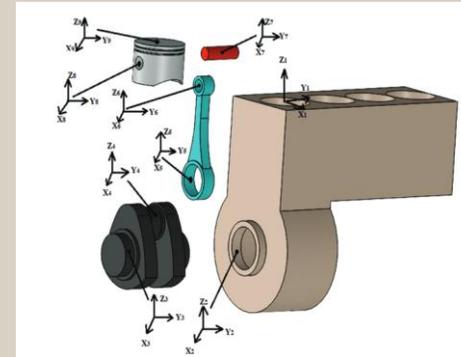


Name: Deepak Lawrence K
 Qualification: Ph.D., (IIT Madras)

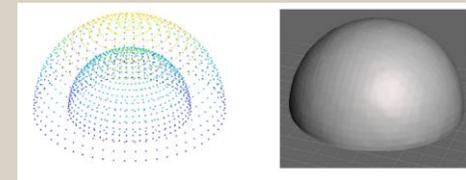
Designation : Assistant Professor
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 Email : deepaklawrence@nitc.ac.in
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 Google scholar: <https://tinyurl.com/83nszj4y>
 Scopus ID : 36135397100
 Orcid ID : <https://orcid.org/0000-0002-5607-0302>



Reflection mapping for roundness computation



Automatic tolerance analyses of assembly



Digital manipulation of point cloud of .stl file for 3D printing



Name: Devendra K Yadav

Qualification: Ph.D., (IIT
 Bhubaneswar)

Designation :Assistant Professor

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Email :devendrak@nitc.ac.in

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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/42d5628e-f905-46ae-ac32-9120e01ef511>

Google Scholar ID :oUYG7cIAAAAJ

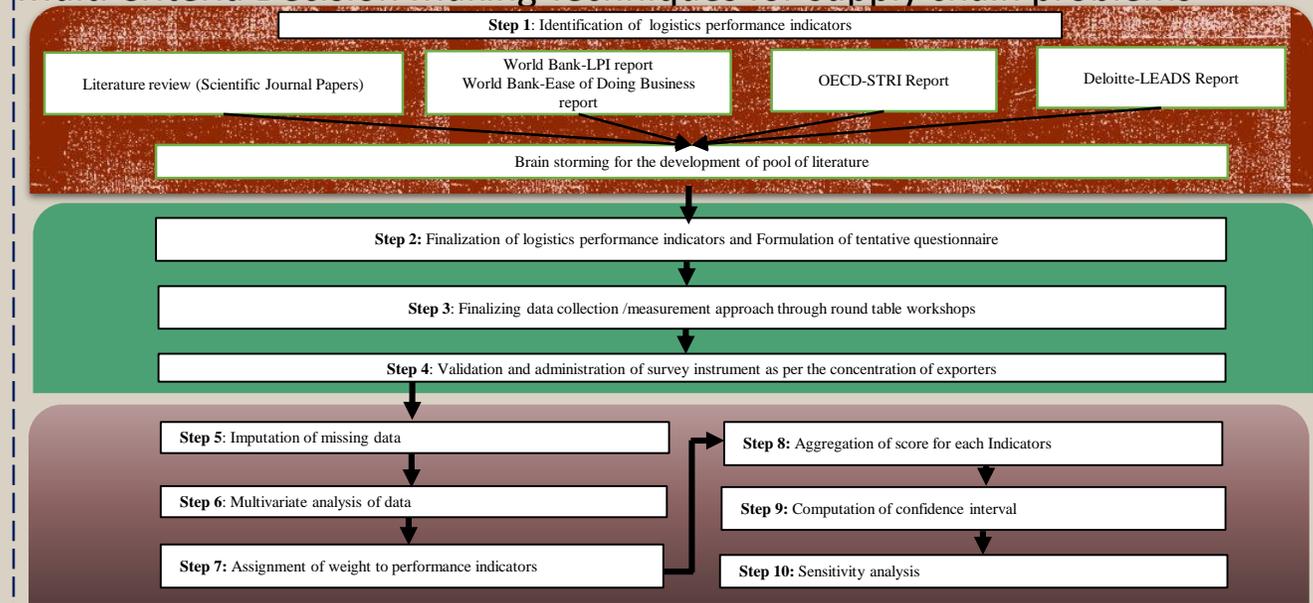
Scopus ID :56498621300

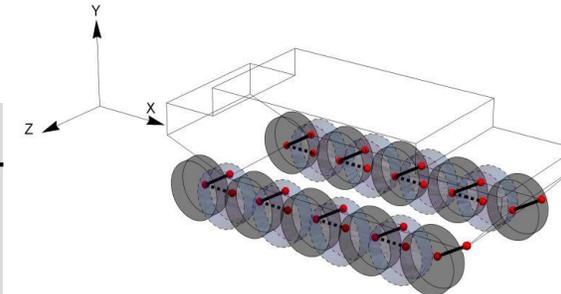
Orcid ID :[0000-0002-0009-9499](https://orcid.org/0000-0002-0009-9499)

Area of Research:

Machine Learning, Humanitarian Logistics

- Logistics Performance Measurement
- Humanitarian Logistics for managing extreme events
- Machine Learning and Data Analytics for business and management
- ~~Multi-Criteria Decision-Making Techniques for supply chain problems~~

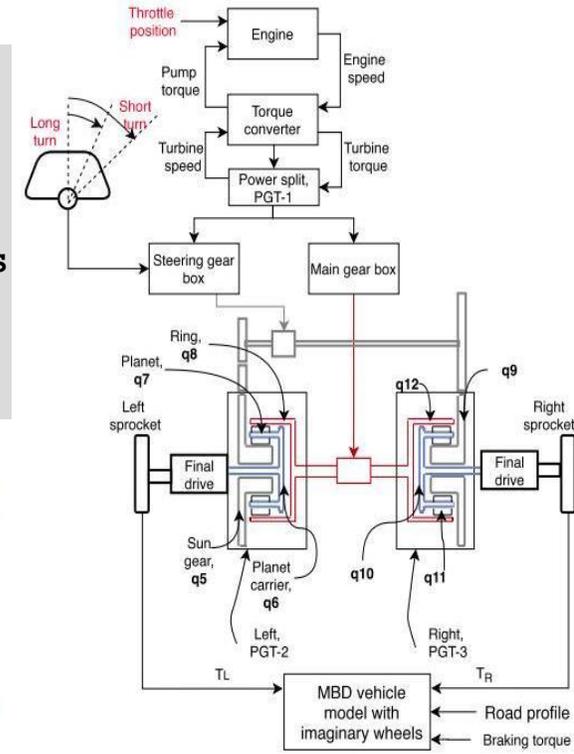




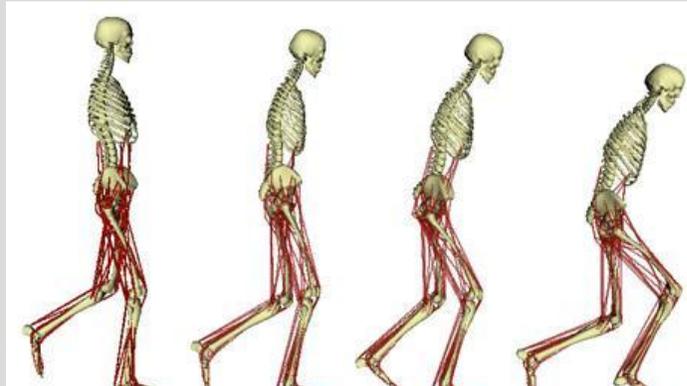
MBD model of a tracked vehicle

Area of Research:

Multi-Body Dynamics for Vehicle Dynamics and Biomechanics: I am a learner in Multi-Body Dynamics (MBD), and I specialize in applying my understanding of MBD to solve complex problems in vehicle dynamics and biomechanics.



Schematic diagram of steering integrated tracked vehicle model.



Open sim- MBD + musculoskeletal models

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Google Scholar

ID:<https://scholar.google.com/citations?hl=id&user=fMKpK6oAAAAJ>

K6oAAAAJ

ORCID ID: 0000-0002-6634-8793



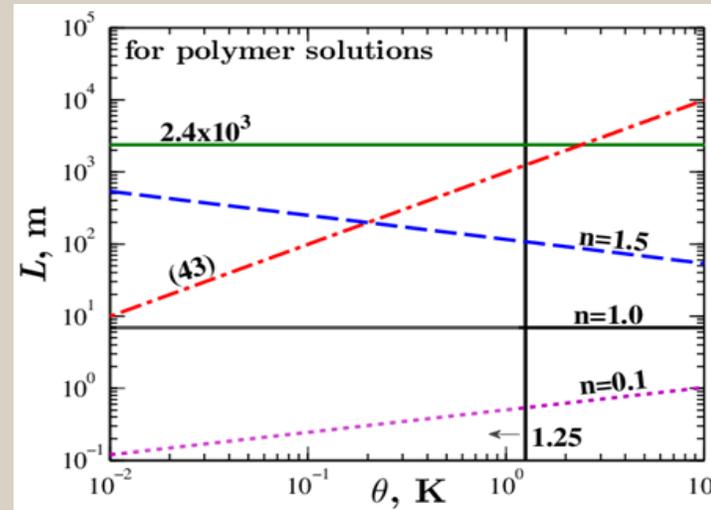
Name: JACOB KOSHY

Qualification: Ph.D., (IIT

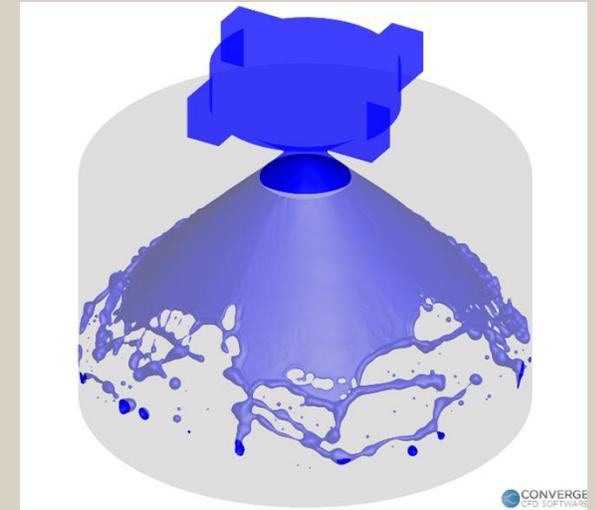
Designation : Assistant Professor
 Contact Number :
 Email : jacobkoshy@nitc.ac.in
 Website address :
 Google Scholar ID : Jacob Koshy Mulamootil
 Scopus ID : 57195678575
 Orcid ID : 0000-0002-4732-1886

Area of Research:

- Expertise in natural convection heat transfer of non-Newtonian fluids using computational fluid dynamics (CFD).
- Study of atomization and sprays using CFD tools and non-intrusive optical diagnostic tools.
- Use of Commercial solvers such as Fluent and Converge CFD for the investigation of heat transfer and fluid dynamics.



Validity of Oberbeck-Boussinesq approximation for non-Newtonian polymer solutions



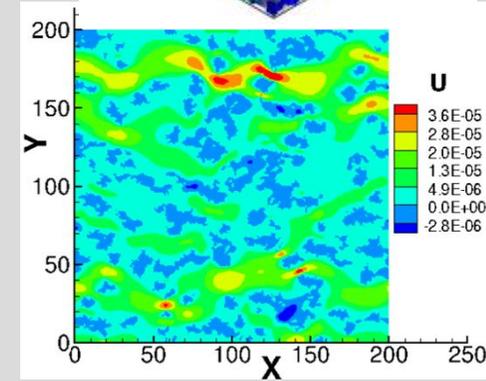
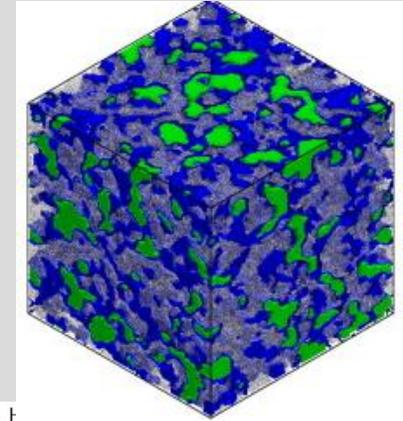
CFD simulation depicting the evolution of a hollow cone spray



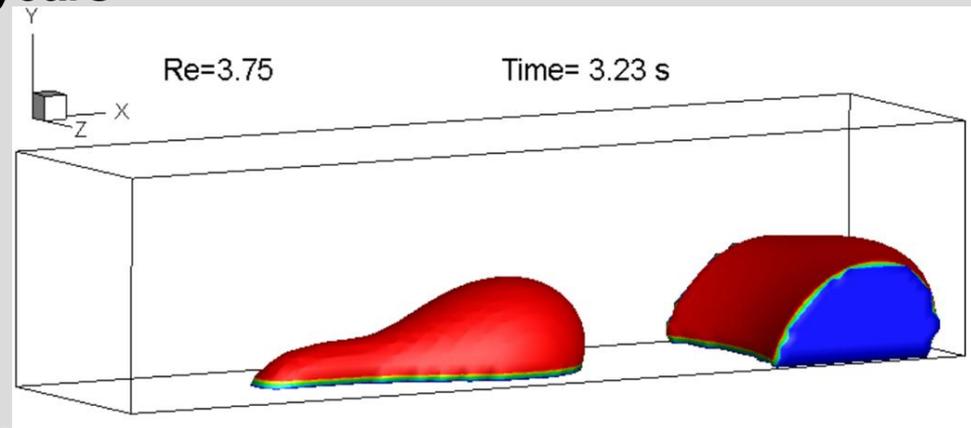
Area of Research:

- Electrochemical Systems of Energy Conversion and Storage
- Transport in porous media
- Phase field multiphase simulations

Ongoing Funded Project: *Lattice Boltzmann Solver for Transport and Electrochemistry in Lithium-Oxygen Battery:* Funded by DST and MeitY, Govt. Of India, as part of the National Supercomputing Mission: **Rs. 45.26 Lakhs for 3 years**



LBM Simulations of Pore-Scale Transport in Porous media



Phase Field LBM Multiphase simulations of water droplet detachment in PEM Fuel Cell Channel



Name : Dr. Jithin M
 Qualification : IIT Kanpur
 Designation : Assistant Professor
 Contact Number : 08765248907
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 Website address : [Click Here](#)
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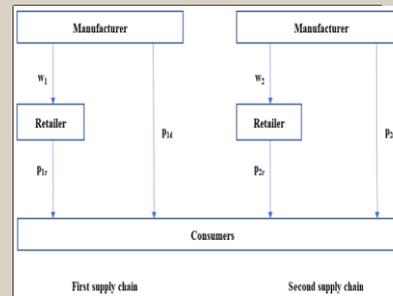
Google Scholar ID :ratna_kumar@nitc.ac.in

Scopus ID :ratna_kumar@nitc.ac.in

Orcid ID :0000-0002-2121-306X

Area of Research:

- Study and analyze the price competition among dual channel supply chains
- Develop and analyze the work place systems for Physically challenged People
- Develop Assistive technologies for elderly and disabled





Name: Mohammed Rashad K

Qualification: Ph.D., (IIT Madras)

Designation : Assistant Professor

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Email : rashad@nitc.ac.in

Website address : linkedin.com/in/rashadkmr/

Google Scholar ID : Mohammed Rashad

Scopus ID : 56735892400

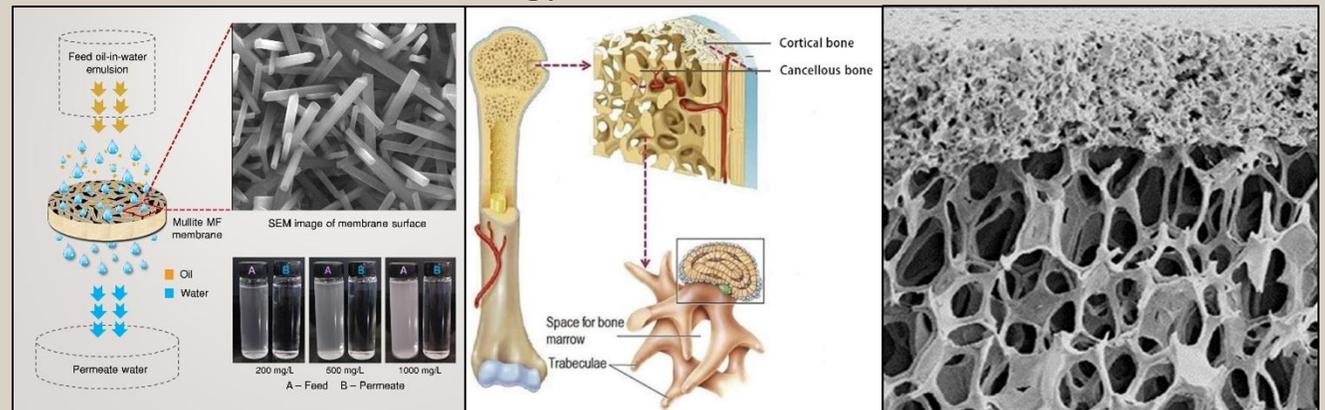
Orcid ID : <https://orcid.org/0000-0003-4926-1909>

Area of Research:

Advanced ceramics processing

Focused on the ideation, design and development of novel materials and energy-efficient processes for adsorption, separation, water purification and medical applications.

- Porous ceramics/membranes for clean water technologies
- Additive manufacturing/3D printing of ceramic components
- Porous ceramics for medical applications
- Functional materials for energy and environment





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mechanical Engineering



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Qualification: Ph.D., (NIT Calicut)

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Website address :
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Google Scholar ID : oR7DQGQAAAAJ

Scopus ID : 55308166600

Orcid ID : <https://orcid.org/0000-0002-1524-5831>

Area of Research:

- Evolutionary Algorithms
- Supply Chain Management
- Warehouse Layout Optimization
- Digital Twinning of Supply Chain
- AI in Operations Management
- Green Supply Chain
- Multi-modal Transportation
- Multi-Criteria Decision Making



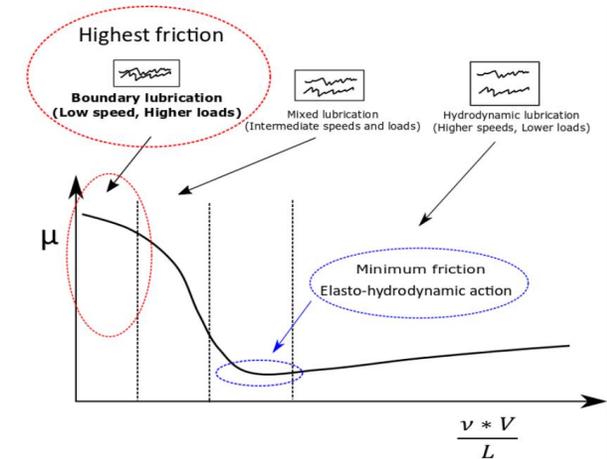
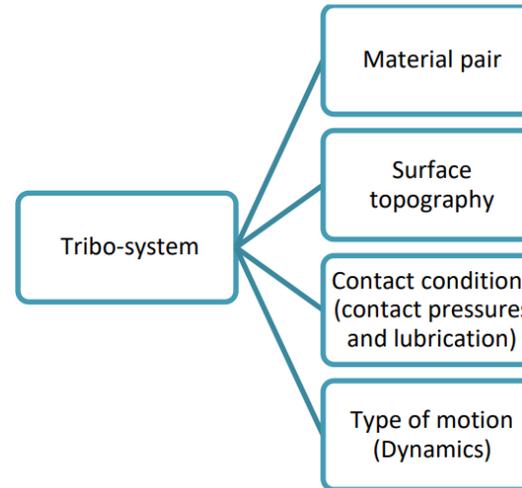
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 Google Scholar ID : 9WLJhEUAAAAJ
 Scopus ID : 57559568500

Area of Research:

Tribology and Machine Design

My research area is Tribology and currently I am working on the design and development of machines for characterizing frictional behavior under different sliding conditions.



Stribeck Curve



Name: Dr. R. Prabhu Sekar

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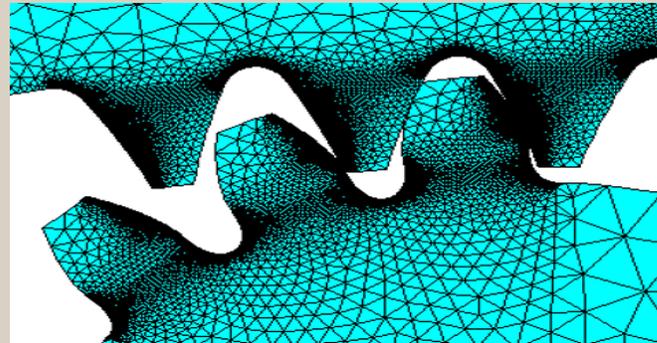
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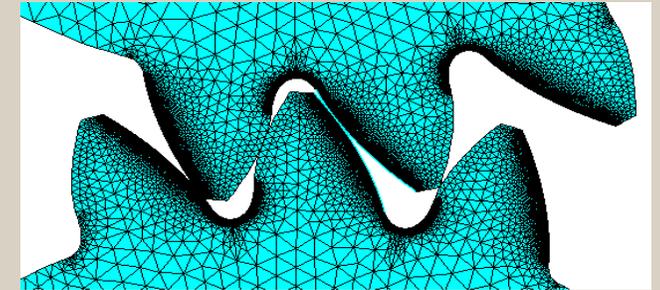
Orcid ID :0000-003-4506-9987

Area of Research:

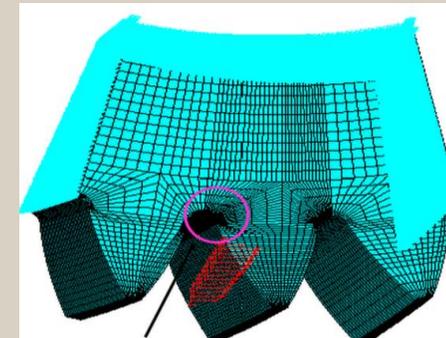
- GEAR DESIGN/ Asymmetric spur and Helical gear Design
- Finite Element Method



Internal Gear Drive



Asymmetric Gear Drive



Asymmetric Helical Gear



Name : Rohinikumar B

Qualification: Ph.D., (NITC)

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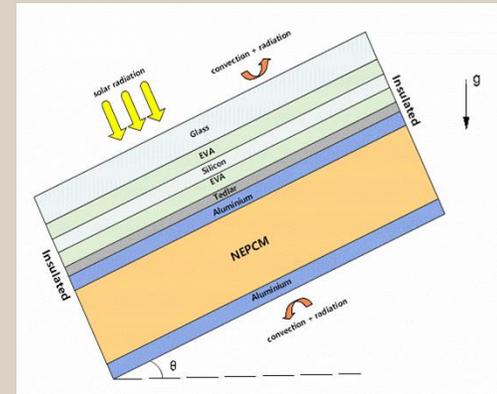
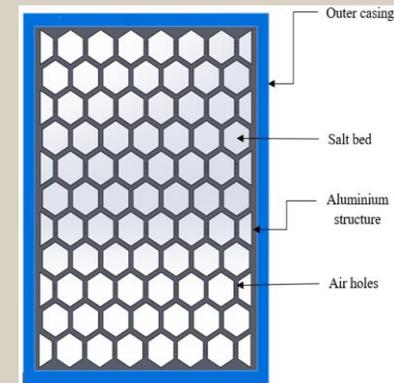
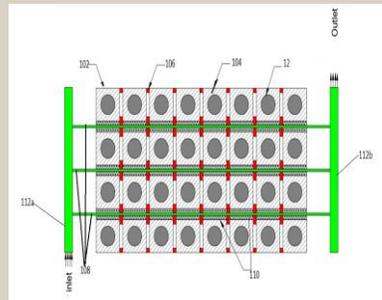
Email :rohinikumar@nitc.ac.in

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ORCID ID :0000-0002-3975-3996

Area of Research:

- Solar –Thermal Energy Conversion
- Thermochemical Energy Conversion
- Thermal Management of Devices/Systems
- Convective Heat Transfer





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Mechanical Engineering



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Google Scholar ID :

<https://scholar.google.com/citations?user=6fHH9d8AAA&hl=en>

Scopus ID :

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Orcid ID : <https://orcid.org/0000-0001-8032-2664>

Area of Research:

- Supply Chain Management
- Reverse logistics
- Network design



Name: Sandip Rudha Budhe

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(University of Girona, Spain)

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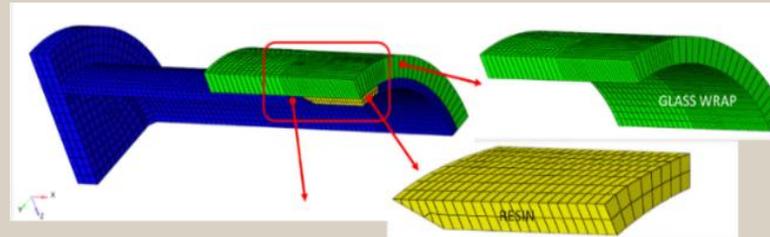
Google Scholar ID : [Sandip Budhe - Google Scholar](#)

Scopus ID :55315382900

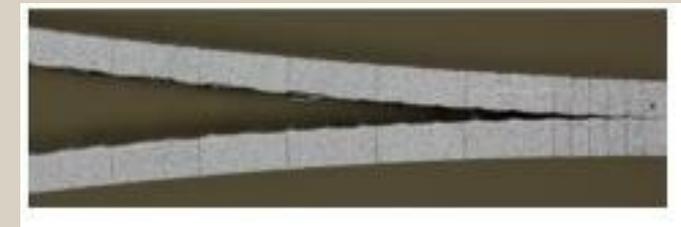
Orcid ID : [0000-0002-3235-9232](#)

Area of Research:

- Mechanics of composite materials
- Composite repair of metallic and non-metallic components
- Multifunctional composite materials and Bio-composite materials



FE Model of Composite Wrap



Edge view of bonded joints DCB



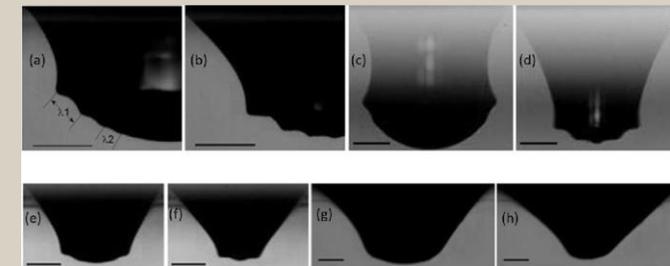
Dr. Sangeeth K

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 Google Scholar ID :
https://scholar.google.com/citations?hl=en&user=VruT_NcAAAAJ
 Scopus ID : 57191967491
 Orcid ID : 0000-0002-5854-3214

Area of Research:

- Fluid dynamics
 1. Interfacial phenomena - jets, bubbles, drops, and cavity collapse.
 2. Gravity waves - nonlinear interaction and bathymetry
 3. Optical flow diagnosis: High speed imaging; PIV.





Name: Sanjeev Kumar Manjhi

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<https://scholar.google.com/citations?user=5S364bAAA-AAJ&hl=en>

Scopus ID

:57200619997

Orcid ID

:

Area of Research:

- Thermal sensors, Hypersonic Flow, Shock-shock flow analysis, Shock Wave, Micro Jet-medical device, Shock in solids, Heat Transfer, Thermal Measurement.

Development of coaxial thermocouples

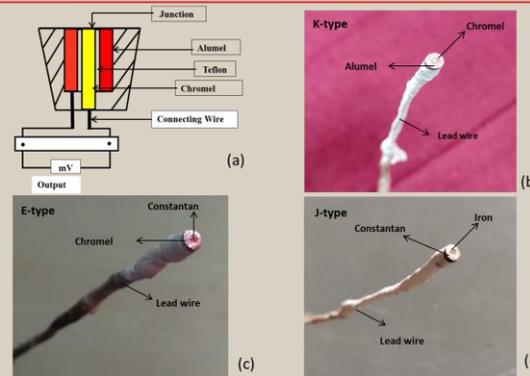
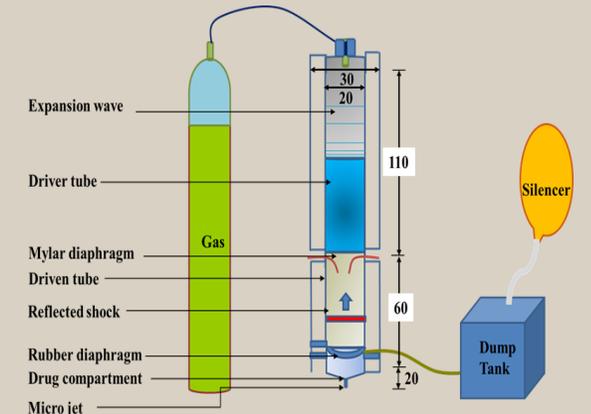
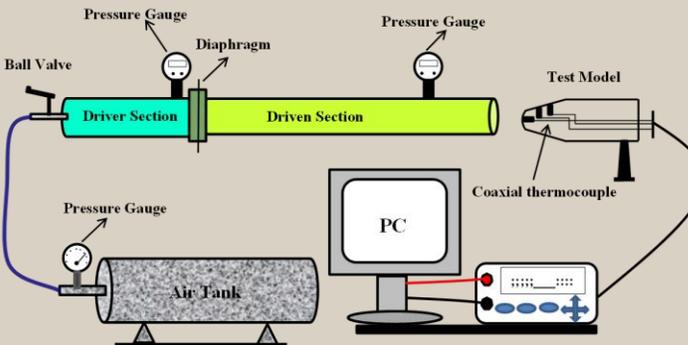
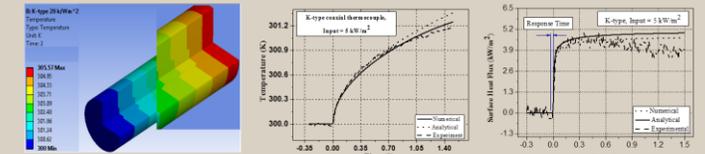
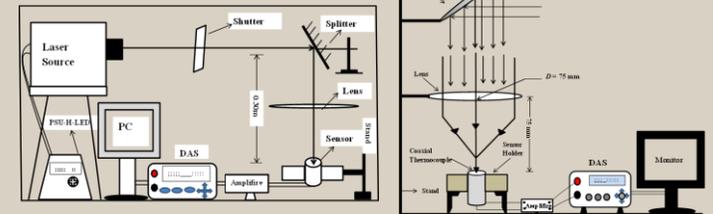


Fig. (a) Sectional view of K-type coaxial thermocouple, actual image of (b) K-type, (c) E-type and (d) J-type coaxial thermocouple

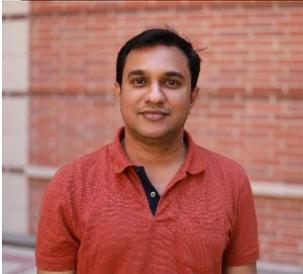
Dynamic calibration





Areas of Research:

- Extrusion based Additive manufacturing: 3D printing of architected structures
- Rheology of complex fluids, reactive systems & printing slurries
- Developing stimuli-responsive, rapid stiffening-3D printing slurries
- CO₂ Mineralization: Design of 3D-printable alternative cements allowing CO₂ uptake



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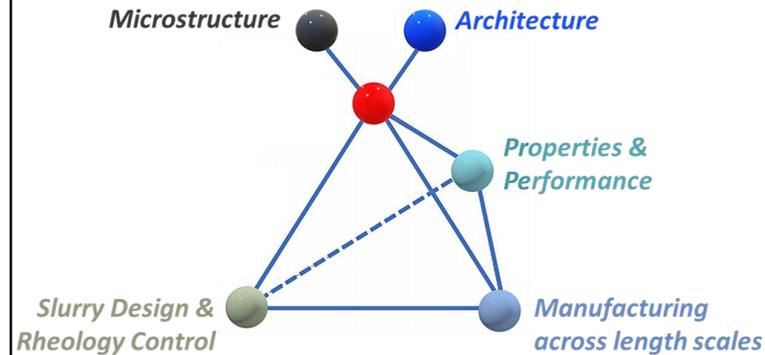
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<https://nitc.ac.in/department/mechanical-engineering/faculty-and-staff/faculty/33337c0b-b7c7-4096-a97c-848d12c5cdb6>

Google Scholar ID :SUITkbiAAAAJ

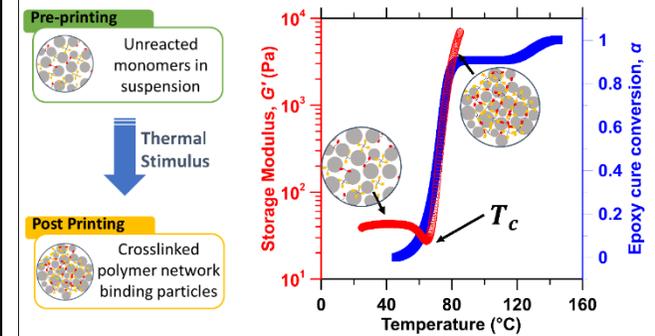
Scopus ID :57204364707

Orcid ID :0000-0001-9939-8239

Expanding the Design-and-Production Space
 Accessible for Slurry 3D Printing



Stimuli-Responsive 3D Printing Slurries



CO₂ Sequestration Using 3D Printed Structures





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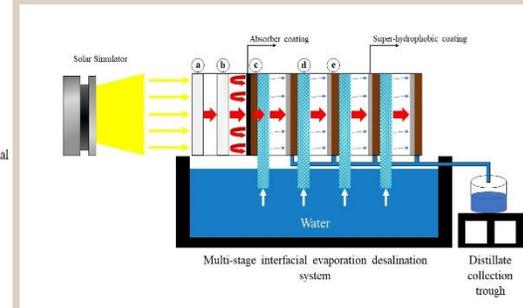
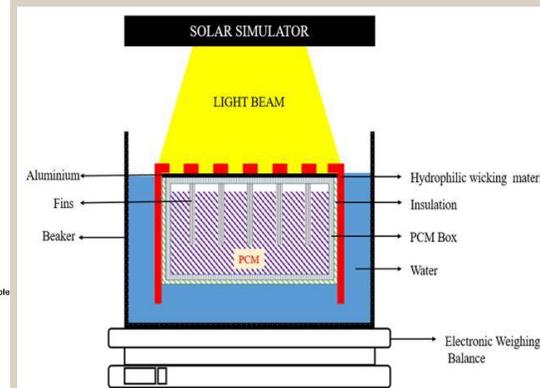
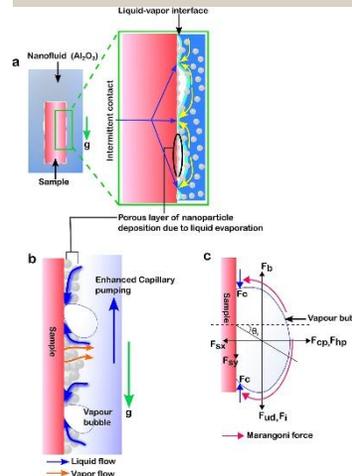
https://scholar.google.com/citations?hl=en&user=Q-o-fQkAAAAJ&view_op=list_works&sortby=pubdate

Scopus ID : 56021083100

Orcid ID : 0000-0001-5609-8244

Area of Research:

- My research works are interdisciplinary, which are lies at the interface of nano materials, physics, heat transport and chemical kinetics.
- Majorly focused investigating the effect of heterogeneous wettability, nanofin action, porosity, and wettability on both flow and pool boiling heat transfer, on the abovementioned modes of heat transfer
- Solar thermal systems: Interfacial evaporation, solar desalination, phase change materials.





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Google Scholar ID :
<https://scholar.google.co.in/citations?user=tJg1a14AAAAJ&hl=en>

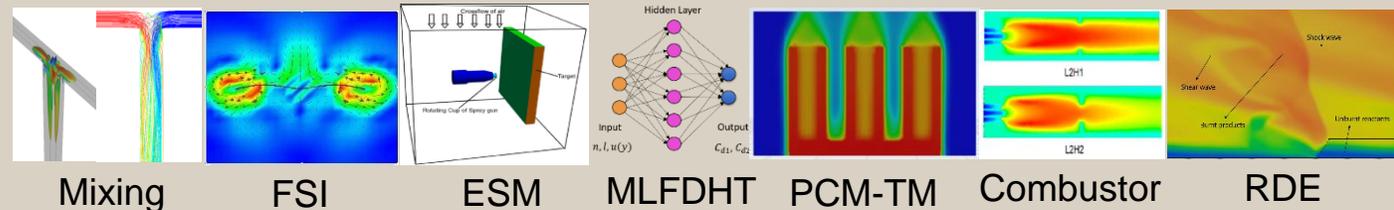
Scopus ID : 47861886800

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Area of Research:

- Computational Fluid Dynamics and Heat Transfer
- Combustion, Propulsion, Energy Systems and Fire Safety
- Multiphase flows, Turbulence and Geo-physical Fluid Dynamics
- Bio-fluid Dynamics, Plasma Dynamics
- Experimental Fluid Dynamics and Heat Transfer.
- Collaborative Research Interest: Machine Learning in Fluid Mechanics and Heat Transfer (MLFDHT)
- Some topics of interests are: Electrostatic spray modeling (ESM); Fluid-structure interactions (FSI); Mixing characterization; Battery thermal management (TM) for EVs; Combustion in Detonation (RDE) engines





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Qualification: Ph.D., (IISc Bangalore)

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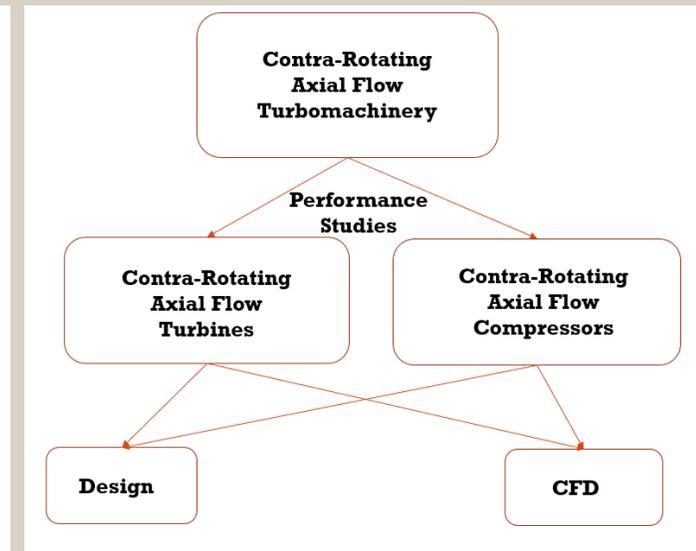
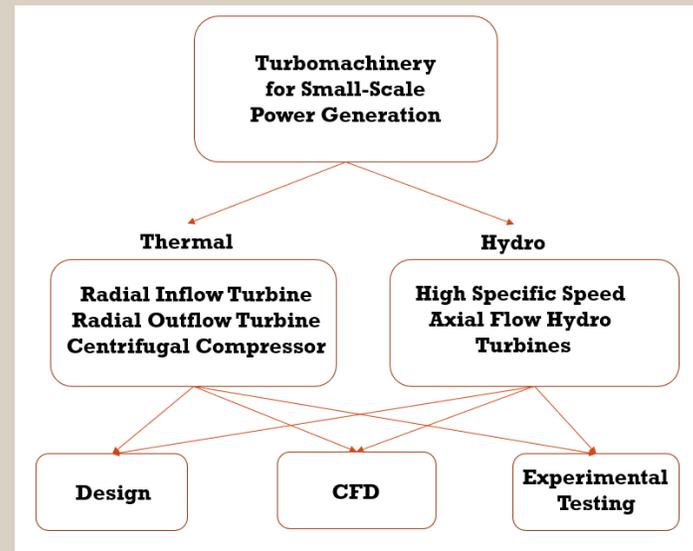
Google Scholar ID :TMuT-dYAAAAJ&hl=en

Scopus ID :57216737033

Orcid ID :0000-0002-0119-368X

Area of Research:

- My research interest lies in the design and performance analysis (computational and experimental) of thermal and hydro turbomachinery . The current research areas include radial turbomachinery for small-scale power applications, contra-rotating axial flow turbomachinery, and high specific speed axial flow turbines for micro-hydro.





Name: Dr. Vikash Kumar

Qualification: Ph.D., (IIT Guwahati)

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Google Scholar ID

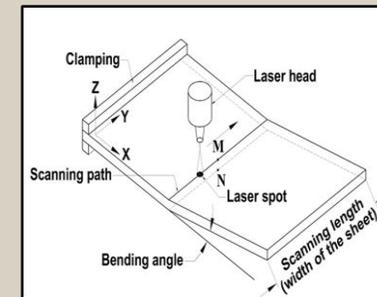
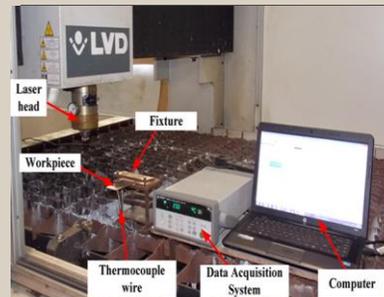
: <https://scholar.google.com/citations?user=MdiiRKcAAAAJ&hl=en&authuser=1>

Scopus ID :

Orcid ID : <https://orcid.org/0000-0002-0388-779X>

Area of Research:

- Laser based manufacturing (forming, welding, cladding)
- Modeling and Optimization of Advanced Manufacturing Processes
- Smart Manufacturing
- Use a graphical representation describing your research(one or two images), if interested.



graphical
representation
of your Work

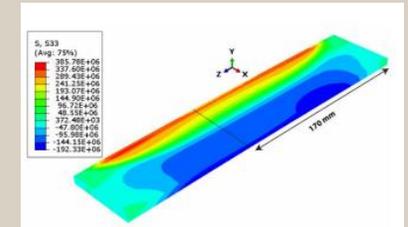
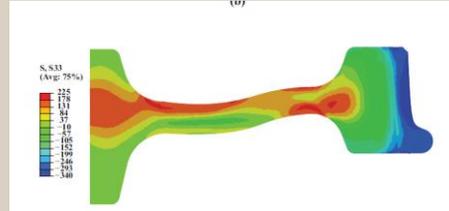


Name: Dr. Vineesh K P

Qualification: Ph.D., (IIT Kharagpur)

Area of Research:

- Computational solid mechanics, Thermo-mechanical simulations



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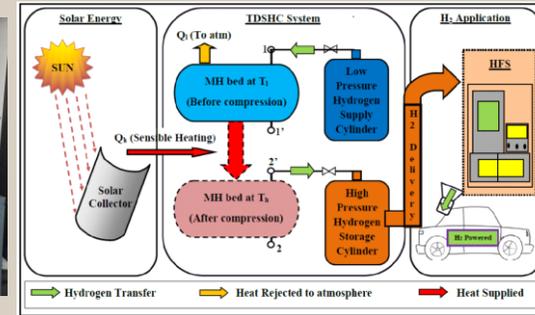
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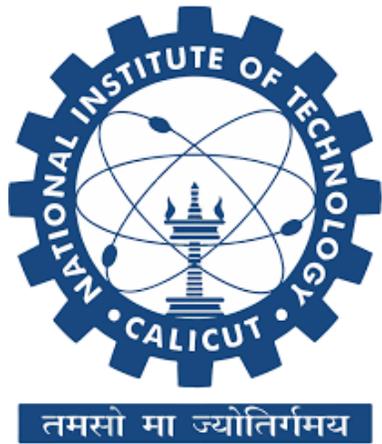
Orcid ID : 0000-0002-5203-1218

Area of Research:

1. Hydrogen Production, Separation, Storage and Applications
2. Hydrogen Embrittlement and Susceptibility
3. CO2 Capture and Sequestration
4. Non-Conventional Thermal and Energy Systems



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
Department of Physics

LIST OF FACULTY

- [Dr. Chandrasekharan K](#)
- [Dr. Ravi Varma M K](#)
- [Dr. Raghu Chatanathodi](#)
- [Dr. AJI A. ANAPPARA](#)
- [Dr. Vari Siaji Reddy](#)
- [Dr. P. K. Madhavan Unni](#)
- [Dr. C. S. Suchand Sangeeth](#)
- [Dr. Subramanyan Namboodiri Varanakkottu](#)
- [Dr. Maneesh Chandran](#)
- [Dr. Saurabh Gupta](#)
- [Dr. Goutam Kumar Chandra](#)
- [Dr. Ram Ajor Maurya](#)
- [Dr. Aswathi. G](#)
- [Dr. P N Bala Subramanian](#)
- [Dr. Sreeraj T P](#)
- [Dr Natesan Yogesh](#)
- [Dr. Anoop Varghese](#)
- [Dr. Raman Namboodiri C. K.](#)
- [Dr. Anirban Sarkar](#)
- [Dr. Sayani Chatterjee](#)
- [Dr. Haris M K](#)
- [Dr. P Muhammed Shafi](#)
- [Dr. Rajesh Mondal](#)
- [Dr. Shareef. M](#)
- [Dr. Biswajit Mandal](#)

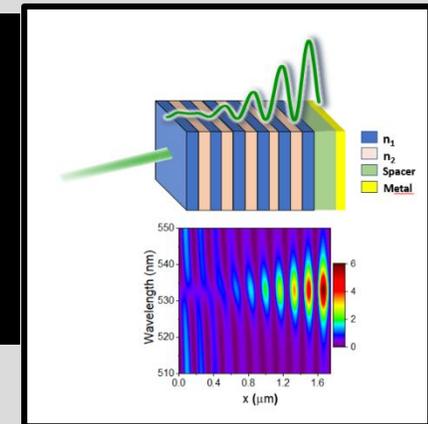
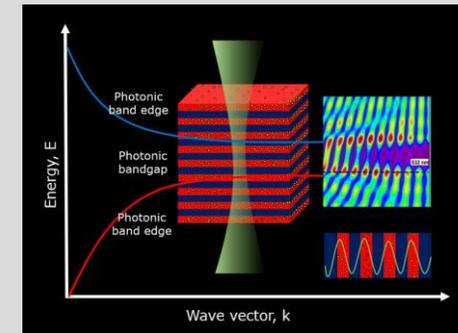
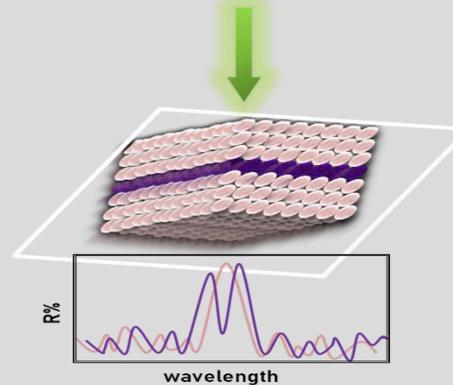


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 Google Scholar ID :
 Scopus ID :
 Orcid ID 0000-0001-6423-666X:

Area of Research:

- Photonic materials for all optical communications.
- Photonic band gap structures and it applications in nonlinear optics.

ALL-OPTICAL COMMUNICATION





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 Google Scholar ID :
<https://scholar.google.co.in/citations?hl=en&user=M83xmkUAAAAJ>
 Scopus ID : 9334654900
 Orcid ID : 0000-0003-4628-3651

Area of Research:

- Development of Instrumentation for Atmospheric, Environmental and Climate Applications based on Optics and Spectroscopy
- Atmospheric Optics and Environmental Measurements of Greenhouse Gases and Aerosol
- Radiative transfer and aerosol forcing on Climate (Global and Regional)
- Use a graphical representation describing your research(one or two images), if interested.

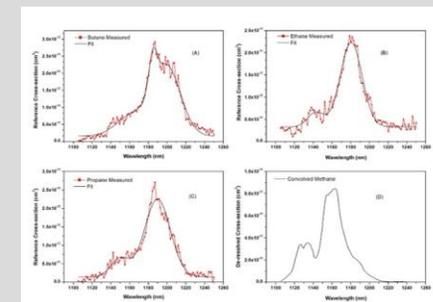
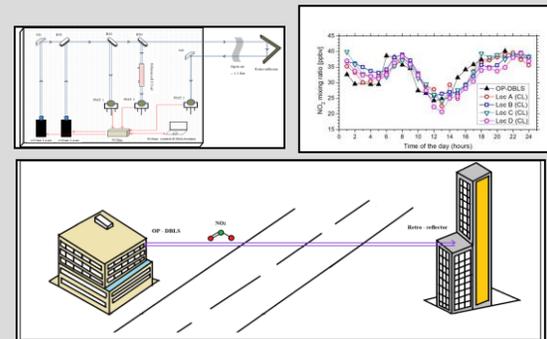
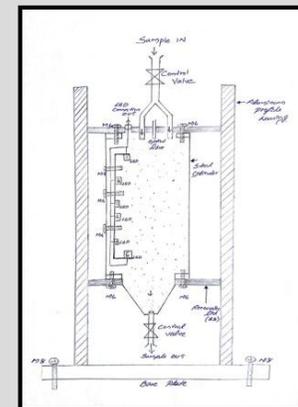


Figure 3: The reference absorption cross-section of (A) Butane, (B) Ethane and (C) Propane, determined using the NIR-IBCEAS instrument. (D) Absorption cross-section of Methane from HITRAN convolved to the instrument resolution.

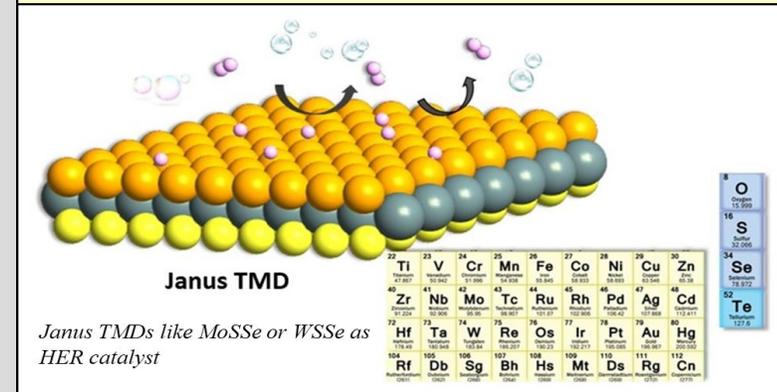
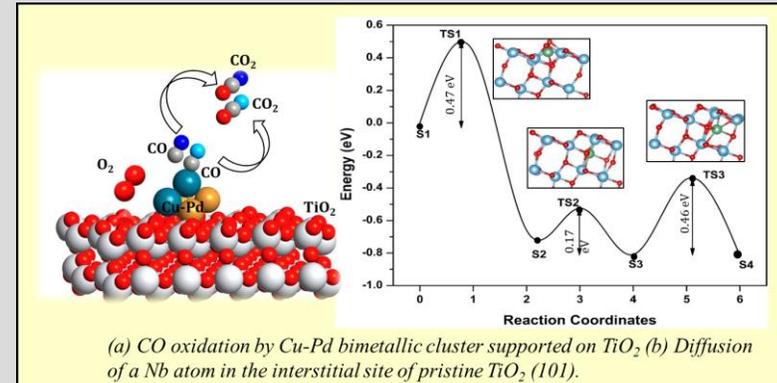




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 Scopus ID : 56803773200
 Orcid ID : 0000-0001-9649-8285

Area of Research:

- Computational Materials Modeling, DFT based Electronic Structure Calculations, Low-Dimensional Systems, Surfaces and Interfaces, Electrochemical Catalysts, Energy Materials, Magnetism, Strongly Correlated Systems, Model Hamiltonian based Computations





Name: Dr. AJI A. ANAPPARA

Qualification: Ph.D., (Scuola Normale Superiore, Italy)

Designation : Professor

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Website address :

<https://nitc.ac.in/departament/physics/faculty-and-staff/faculty/4990c962-48ca-427c-b74a-7943d5f33f7b>

Google Scholar ID :

<https://scholar.google.co.in/citations?user=S0hdNrEAAA&hl=en>

Scopus ID : [8114108200](https://scopus.com/authorid/8114108200)

Orcid ID : 0000-0001-7129-4307

Area of Research:

Device Applications

- Carrier-diffusion based broad-band, self-powered photodetectors
- Paper-based, bio-inspired retinomorphic photosensors
- Self-powered wearable electronics
- White-light emitting devices based on sustainable materials

Fundamental studies

- Light-matter interaction in low-dimensional systems
- Chemical sensing, metal-free phosphorescence materials
- Visible light induced depolymerization of post-consumer plastics

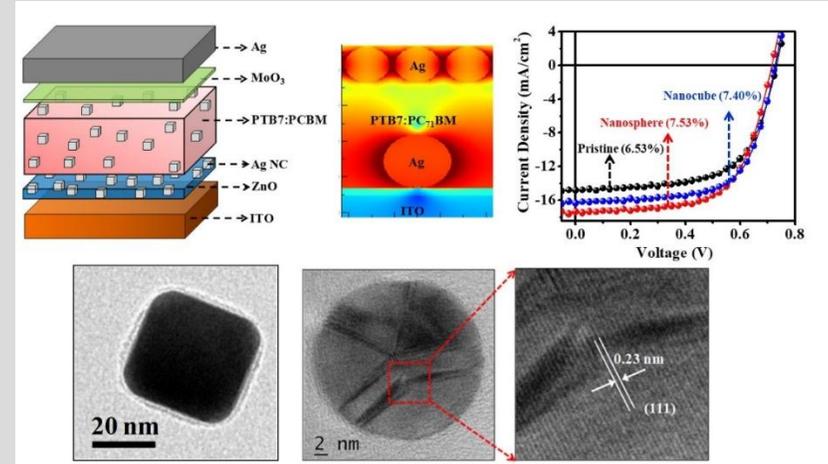


Name : Vari Siaji Reddy
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 Email : sivaji@nitc.ac.in
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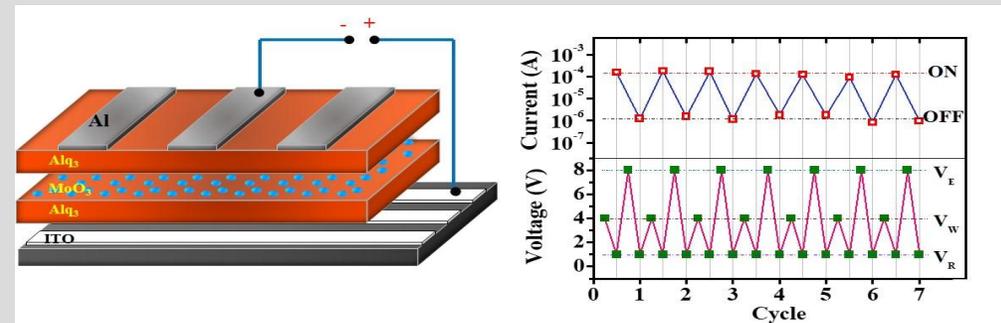
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Scopus ID : 14044095700
 Orcid ID : 0000-0001-8486-2086

Areas of Research: Organic solar cells, Nanomaterials for energy applications, Interface engineering, Organic bistable memory devices



Efficiency enhancement in polymer solar cells using combined plasmonic effects of multi-positional silver nanostructures



Organic Bistable Memory Devices Based on Molybdenum Trioxide Nanostructures

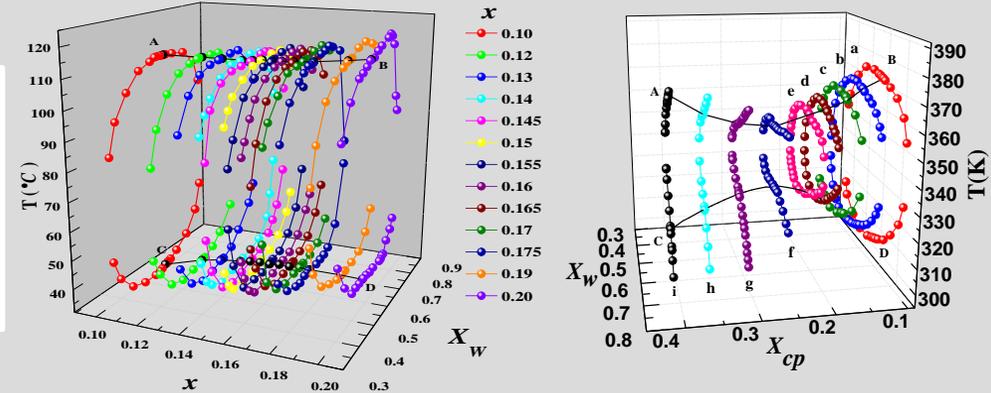
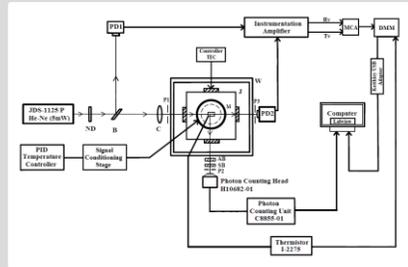


Name: P. K. Madhavan Unni
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Designation : Assistant Professor
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 Google Scholar ID :
<https://scholar.google.co.in/citations?hl=en&user=M83xmkUAAAAJ>
 Scopus ID :
 Orcid ID :

Area of Research:

- Critical Point Phenomena (Experimental): Exploration and realization of special critical points such as the Double Critical Point (DCP), Critical Double Point (CDP), Critical Inflection Point (CIP), Quadruple Critical Point (QCP)
- Liquid-Liquid phase transitions, micellar systems, polymer solutions.
- Soft Matter Physics
- Design/Development of new instruments/experimental setups, electronic, optical and thermal instrumentation.





Name: C. S. Suchand Sangeeth
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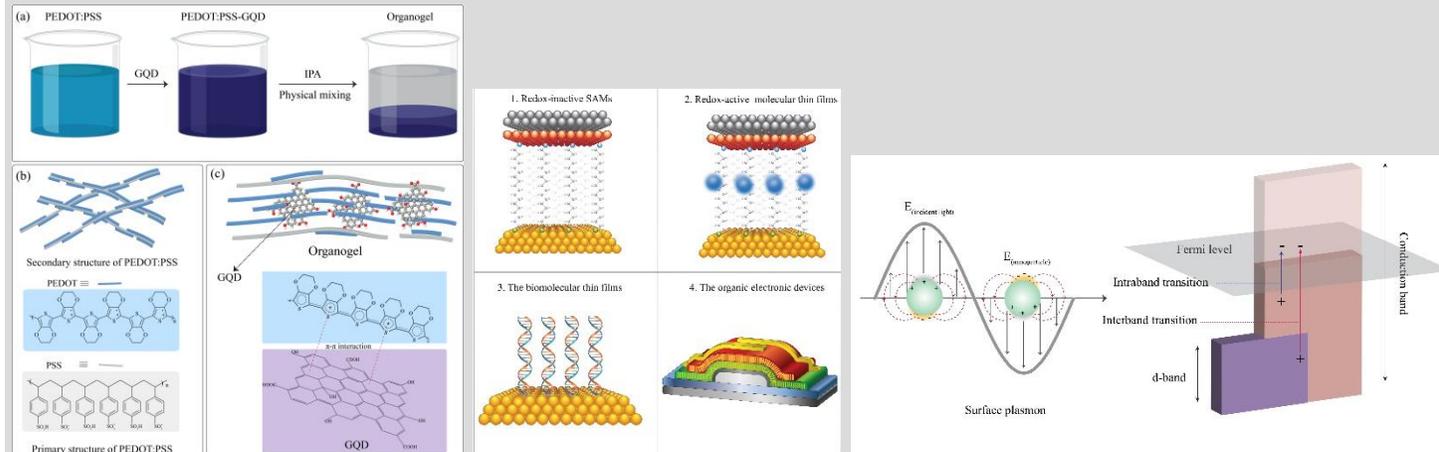
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Google Scholar ID :
<https://scholar.google.com/citations?user=GcT366YAAA>
 AJ&hl=en&oi=ao

Scopus ID :
 Orcid ID : <https://orcid.org/0000-0002-1612-5890>

Area of Research:

- Charge transport, Organic and Molecular electronics, Nonlinear optical properties of novel materials



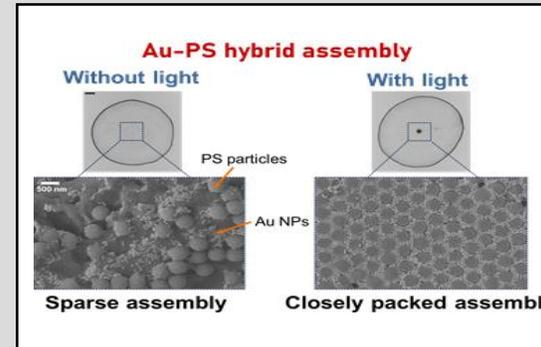


Name : Dr. Subramanyan Namboodiri Varanakkottu
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 Designation : Assistant Professor
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 Scopus ID : 55750721500
 Orcid ID : <http://orcid.org/0000-0001-7024-3882>

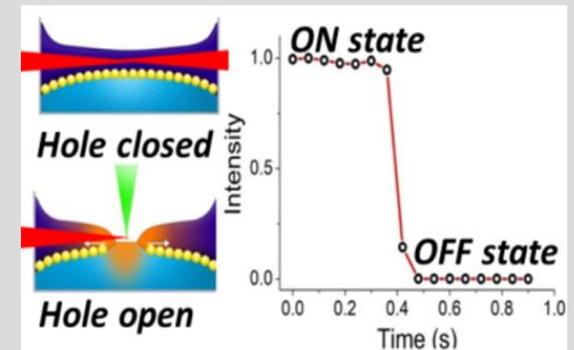
Areas of Research:

- Optofluidics; All-optical switching; Fiber optics
- Soft matter; Interface science

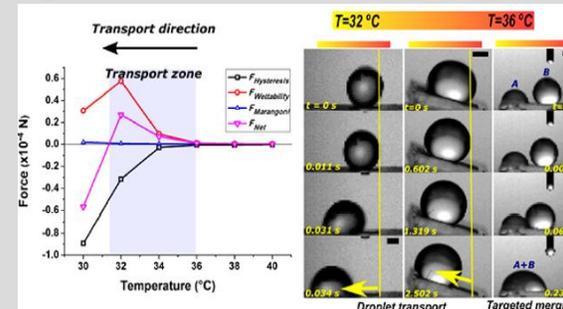
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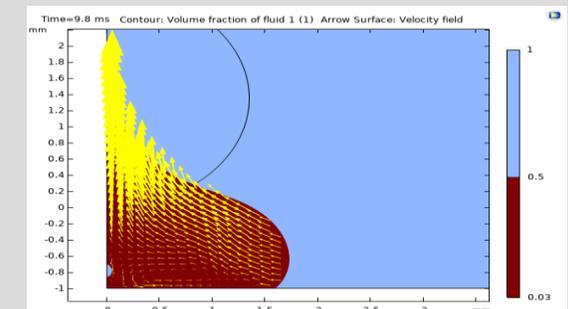
Light-directed colloidal assembly



Plasmonic optical switch



Open surface microfluidic transport

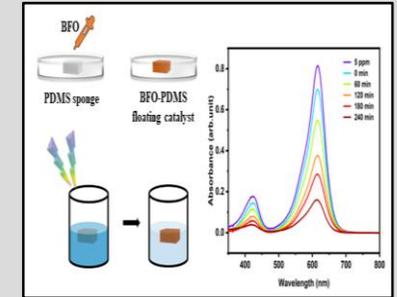
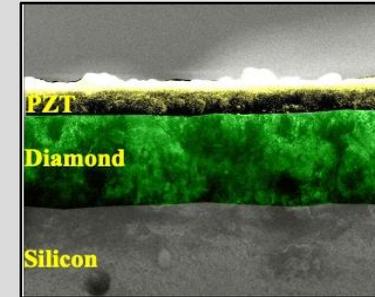




Name : Dr. Maneesh Chandran
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 Google Scholar ID :
<https://scholar.google.co.il/citations?hl=en&user=7RtvcisAAAAJ>
 Scopus ID : 56284271600
 Orcid ID : 0000-0001-5467-3380

Area of Research:

- Carbon-based Nanomaterials (Diamond, Graphene, CNT)
- Oxide Thin films and Heterostructures (PZT, BiFeO3)
- Photocatalysis
- Raman spectroscopy
- Use a graphical representation describing your research(one or two images), if interested.





Name : Saurabh Gupta
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<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/bc7377d0-a009-4123-88a5-923b86e7565b>
Google Scholar ID : --
Scopus ID : [56172921600](https://scopus.com/authid/detail.url?authorID=56172921600)
Orcid ID : [0000-0002-4276-7707](https://orcid.org/0000-0002-4276-7707)

Area of Research:

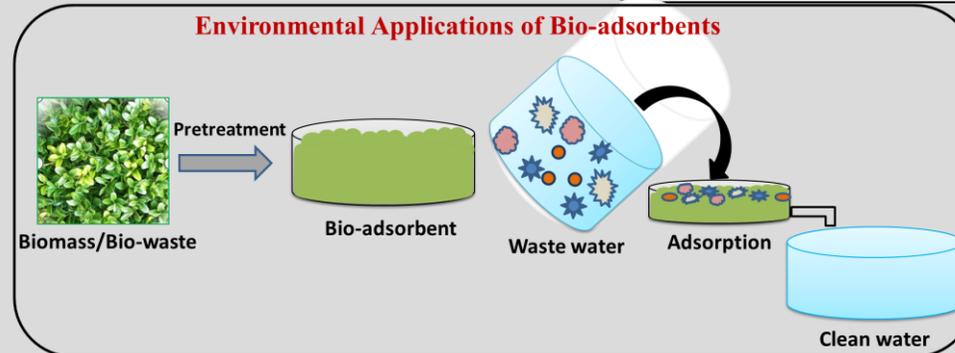
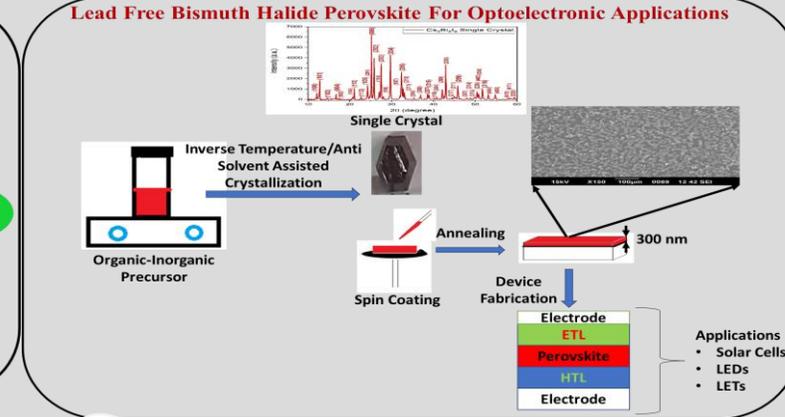
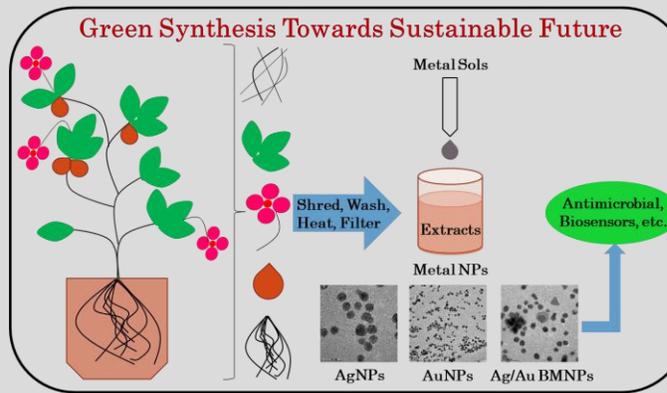
- Constrained Dynamics
- (Topologically) Massive & Higher form ($p \geq 2$) Gauge Theories
- Supersymmetries and BRST Symmetries
- Neutrino Physics: Mixing and Oscillations
- We focus on the study of the dynamics of physical systems involving inherent constraints. Our investigations entail quantizing the constraint Hamiltonian theories by utilizing canonical and geometrical methods. We primarily focus on the investigation of gauge theories - a theoretical concept that successfully describes all fundamental interactions of nature except gravity.
- We are also interested in the reformulation of gauge non-invariant theories into gauge theories through the symplectic methodology.
- The other themes of research comprise the study of various aspects of symmetries and supersymmetries of (topological) field theories within the BRST framework - which enables the analysis of physical systems at the quantum level.



Name : GOUTAM KUMAR CHANDRA
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 Scopus ID :
 Orcid ID : [0000-0002-6096-7075](https://orcid.org/0000-0002-6096-7075)

Area of Research:

- Fundamentals of interactions at the molecular level through spectroscopy (mainly, Raman spectroscopy)
- Green technology towards sustainable future
- Fabrication of opto-electronic materials and its applications





Name: Dr. Ram Ajour Maurya

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Google Scholar ID : [y4rgqtMAAAAJ](https://scholar.google.com/citations?user=y4rgqtMAAAAJ)

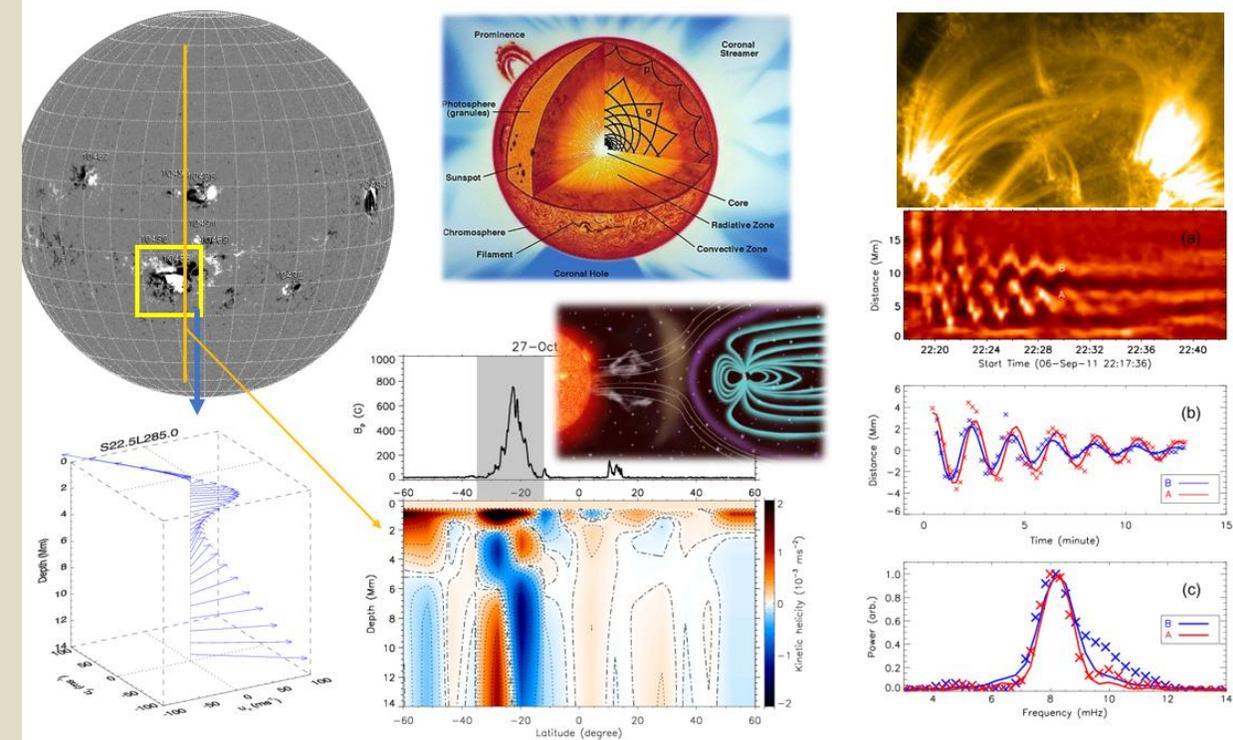
Scopus ID : [57202824429](https://orcid.org/0000-0002-6353-9252)

Orcid ID : [0000-0002-6353-9252](https://orcid.org/0000-0002-6353-9252)

Areas of Research: Solar Astrophysics

- Helioseismology
- MHD waves in Solar Atmosphere
- Solar Eruptions and associated Phenomena
- Atmospheric Heating
- Solar-Terrestrial Relations

Table of content images





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Physics



Name : Dr. Aswathi. G
Qualification : PhD (IISER Thiruvananthapuram)
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04952285123 (Office)
Email : aswathig@nitc.ac.in
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ORCID ID : 0000-0003-4359-7700
Website address :
<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/17e254f8-b151-40e3-92f0-b39e44c21d5e>

Area of Research:

- Material Science and Nanotechnology.
- Multifunctional nanostructured materials: Synthesis and applications.
- Energy storage and conversions devices (Batteries, Supercapacitors, Hydrogen storage *etc.*)
- Electro and photocatalysis.
- Environmental applications (CO₂ capture, Wastewater treatment *etc.*)



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Physics



Name : Dr. P N Bala Subramanian

Qualification: Ph.D., IISc - Bengaluru

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Google Scholar ID :

<https://scholar.google.com/citations?user=qMj0LgcAAAAJ&hl=en>

Scopus ID : 57190835212

Orcid ID : 0000-0001-7802-780X

Area of Research:

- Classical and Quantum features of gravity
- Quantum field theory
- Quantum Mechanics



Name	: Sreeraj T P
Qualification	: Ph.D. (S N Bose National Centre for Basic Sciences)

Designation	: Assistant Professor
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Scopus ID	: 54419166200
Orcid ID	: 0000-0002-5367-6210

Areas of Research:

- Lattice Gauge theory.
- Mass gap problem is to show that there is a gap between ground state and the next excited state in the spectrum of non-abelian gauge theories. In our research, we have been trying to develop analytical techniques to investigate mass gap problem as well as other low energy aspects of non-abelian gauge theories.
- Quantum to classical transition.
- Recently, I have also been working towards understanding quantum to classical transitions in non-relativistic as well as relativistic quantum systems.

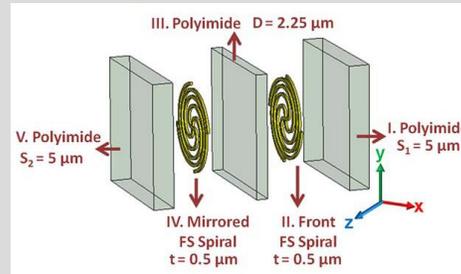


Name : Dr Natesan Yogesh
 Qualification : Ph.D., (IIT Madras)
 Designation : Assistant Professor
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 Email :yogesh@nitc.ac.in
 Website address :
<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/5647c4ba-73a2-4f5b-821a-8eab8a7529ef>
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 Scopus ID :36807038700
 Orcid ID : 0000-0001-6725-3852

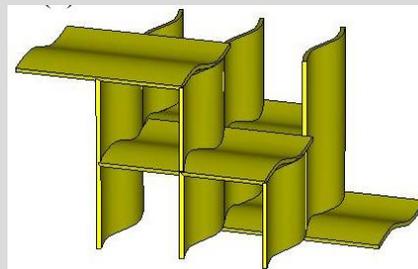
Area of Research:

- Electromagnetic wave propagation in complex photonic structures at RF/Microwave/THz regimes
- Photonic crystals, Metamaterials, Metasurfaces, Design and Development of RF/microwave/THz optical elements. Plasmonics (Surface plasmon polariton resonance and its applications).

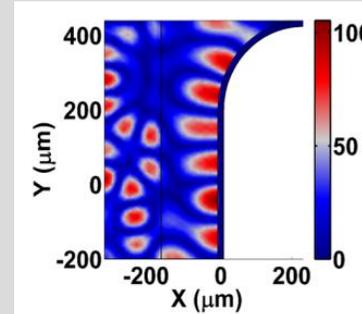
THz Circular Polarizer (IEEE Photonics, 2015)



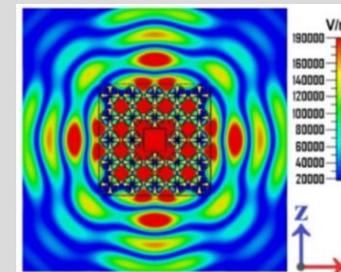
3-D Chiral Assembly (Opt. Letters, 2020)



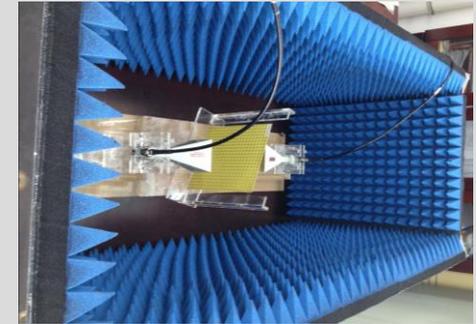
THz Surface Plasmon Polariton (JOSA B, 2021)



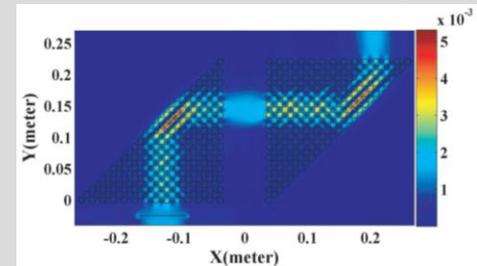
Quad Beam Transformer (Opt. Continuum, 2023)



Microwave Metamaterial Studies



Self-Collimation in Photonic Crystal





നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Physics

Area of Research: Soft Matter and Statistical Physics



Name: Dr. Anoop Varghese

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<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/3210c753-4a65-4c4c-8065-b35d021c30ee>

Google Scholar ID :

https://scholar.google.com/citations?user=fgCR_88AAAAJ&hl=en&oi=ao

Scopus ID : 53985533100

Orcid ID : 0000-0001-9282-3802

- My research interests are broadly in the statistical physics of simple fluids and soft matter systems such as polymers, liquid crystals and colloids.
- For my research I use a combination of theory and a range of computational methods such as Molecular Dynamics, Monte-Carlo and Multiparticle Collision Dynamics.
- My current research interest are in the non-equilibrium dynamics of associating polymers and liquid crystals.



നാഷണൽ ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജി കാലിക്കറ്റ്
 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

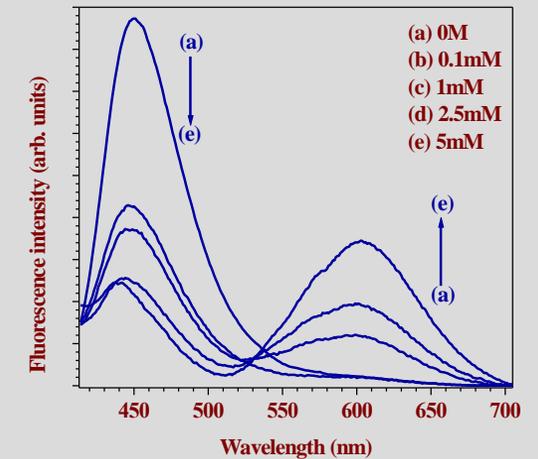
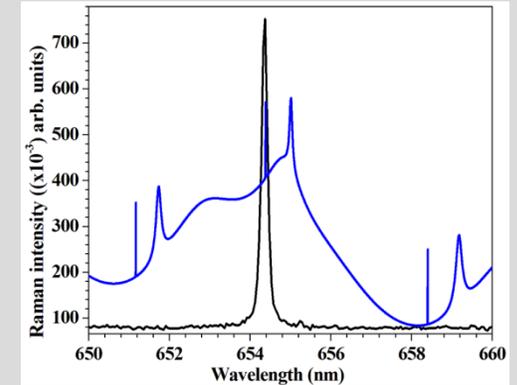
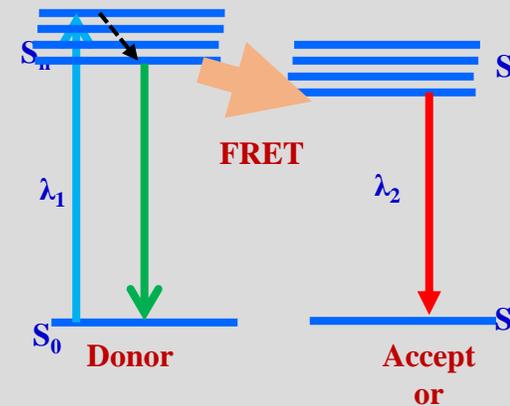
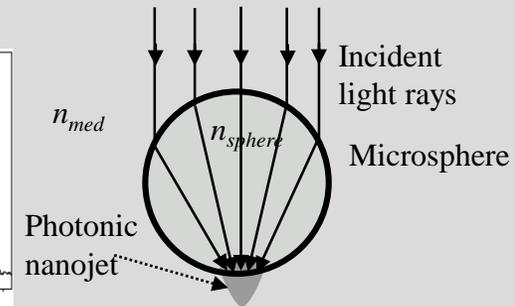
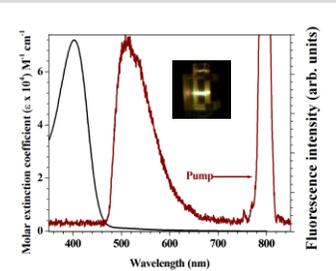
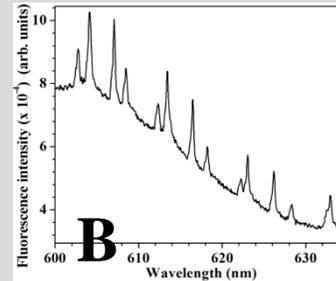


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 0495- 2285131
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Google scholar id-
<https://scholar.google.com/citations?user=FI0U9d0AAAAJ&hl=en>

Area of Research:

- Nonlinear Optics, Fluorescence Microscopy
 Multiphoton absorption, Förster Resonance Energy Transfer, Enhancement of Raman Signals, Whispering Gallery Modes

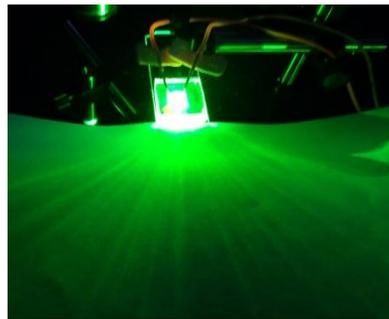




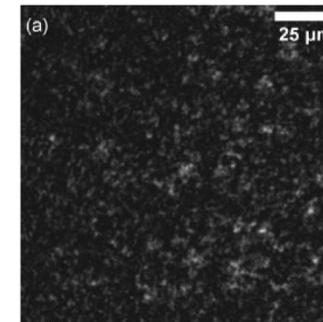
Name : Anirban Sarkar
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 Email : anirban@nitc.ac.in
 Website address :
<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/228c2e76-be3b-4891-b01c-8b694c9283d0>
 Google Scholar ID :
<https://scholar.google.com/citations?hl=en&user=cUwJblwAAAAJ>
 Scopus ID :
 Orcid ID :

Area of Research:

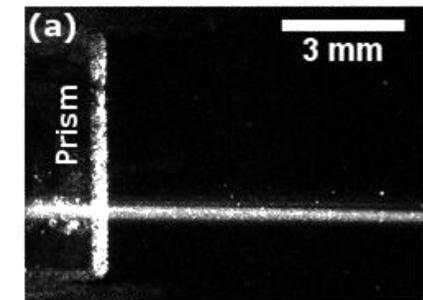
- Laser Physics
- Imaging through disordered Media
- Photonic Crystals: 1D and 3D structures
- Optical Waveguides
- Optical Sensors



Random laser



Laser speckle



Optical waveguide



Name: Sayani Chatterjee

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(S. N. Bose National Centre for Basic Sciences)

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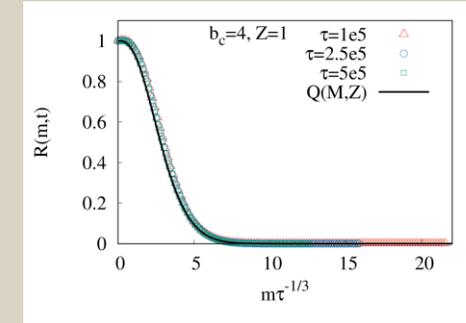
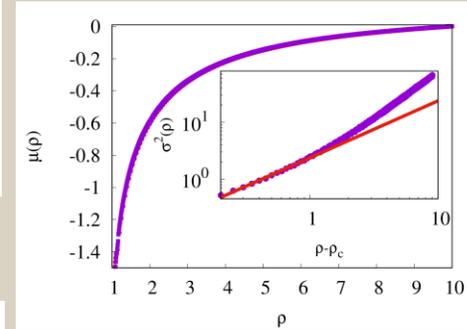
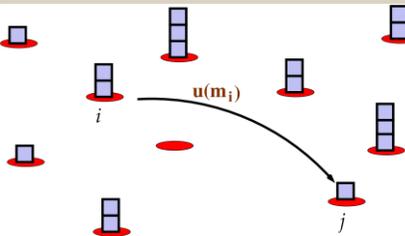
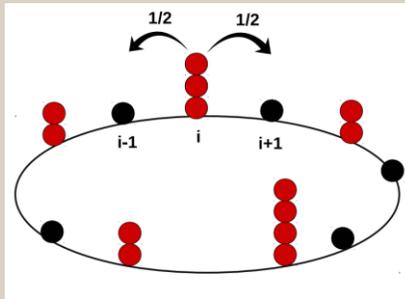
Website address :
<https://nitc.ac.in/department/physics/faculty-and-staff/faculty/7ef4ae0a-e250-4923-8d4f-ff2118a83130>

Google Scholar ID
 :<https://scholar.google.com/citations?user=yH5qpe0AAAAJ&hl=en&oi=ao>

Scopus ID

Area of Research:

1. Equilibrium and Nonequilibrium Statistical Mechanics
2. Equilibrium and Nonequilibrium Thermodynamics
3. Soft Matter

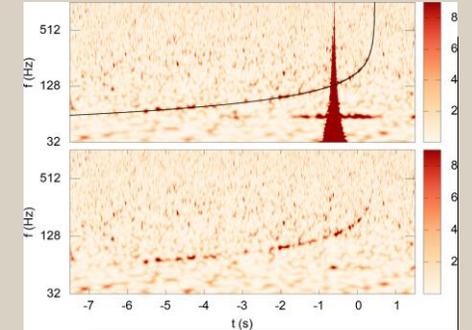
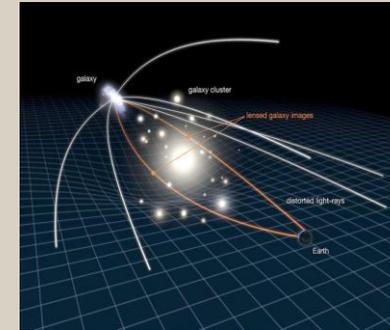
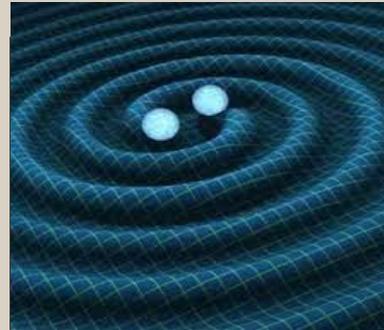




Name : Haris M K
Qualification : Ph.D., (IISER TVM)
Designation : Asst. Professor
Contact Number : 91 808933833
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Orcid ID : 0000-0001-5597-8098

Area of Research:

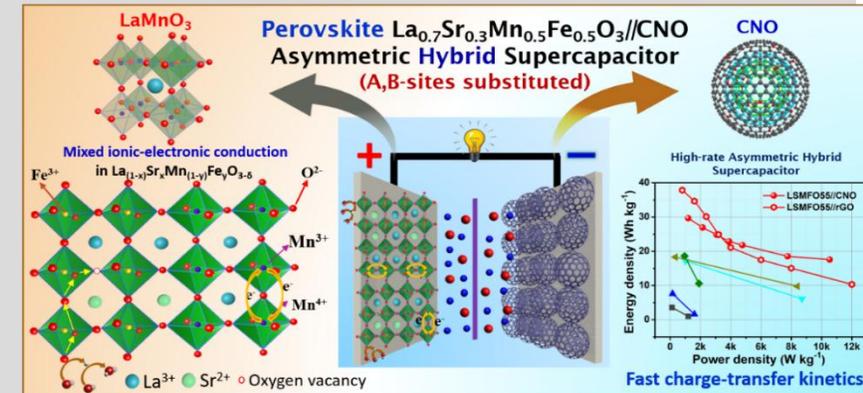
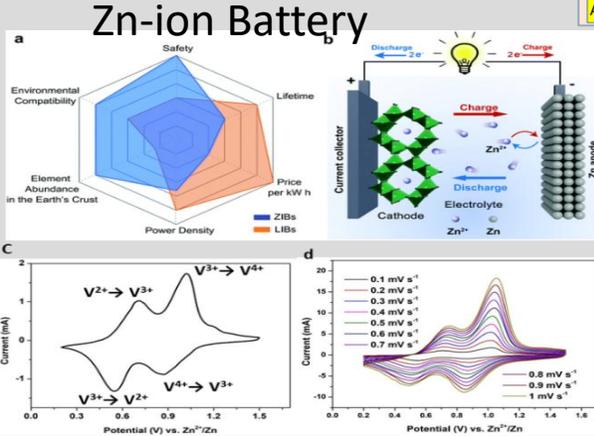
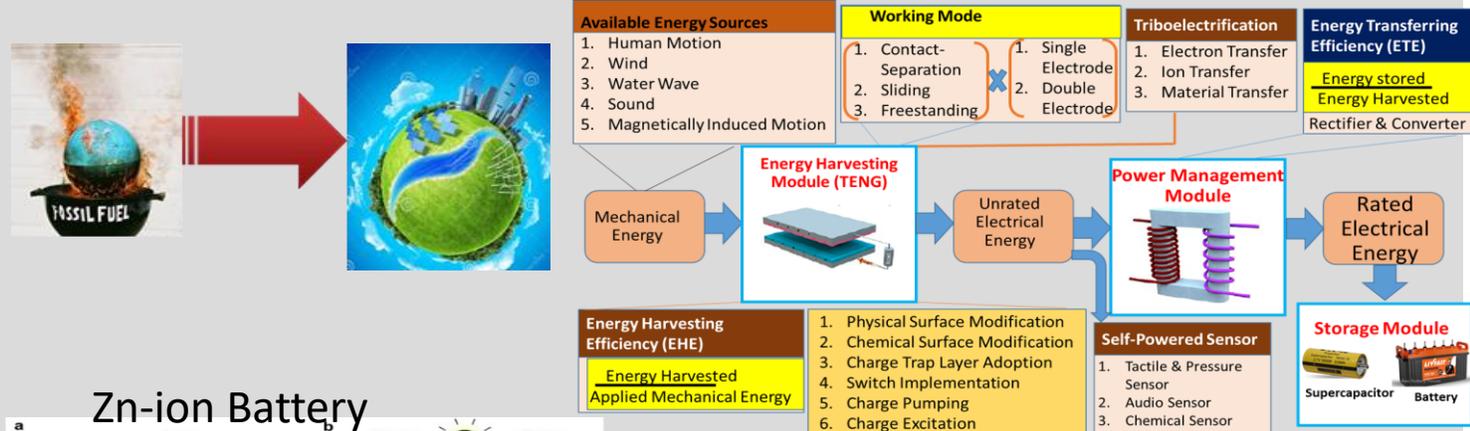
- Gravitational wave Physics
 - Compact binary systems
 - Test of general relativity
 - Gravitational lensing
 - Machine learning





Area of Research:

- Material engineering for Triboelectric Nanogenerators (TENGs), Aqueous Zn-ion batteries, Supercapacitor, Photoelectrochemical cell, electrochemical sensor, Hydrogen and Oxygen evolution catalyst.



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 राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Physics



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[and-staff/faculty/e536b90e-f4eb-4aa4-9340-e67420406380](https://nitc.ac.in/department/physics/faculty-)

Google Scholar ID: [rfZCYT4AAAAJ](https://scholar.google.com/citations?user=rfZCYT4AAAAJ)

Scopus ID : [57220511322](https://scopus.com/authid/detail.uri?https://orcid.org/0000-0001-7728-3756)

ORCID ID : [0000-0001-7728-3756](https://orcid.org/0000-0001-7728-3756)

Area of Research:

Astrophysics & Cosmology

Research Interest: 21-cm Cosmology, Epoch of Reionization (EoR), Large-Scale Structure of the Universe, Cosmological N-body Simulations, Simulations of 21-cm signal, Statistical inference, Dark Matter, Low-Frequency Radio Interferometry, Cosmic Microwave Background (CMB)

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Perspective | Published: 14 September 2023

Prospects for precision cosmology with the 21 cm signal from the dark ages

[Rajesh Mondal](#) ✉ & [Rennan Barkana](#)

[Nature Astronomy](#) 7, 1025–1030 (2023) | [Cite this article](#)

The 21-cm Cosmology

The diagram illustrates the timeline of the universe's evolution. It starts with the Big Bang at 0 years, followed by the Dark Ages (0 to 380,000 years), the Epoch of Reionization (380,000 to 1 billion years), and the present day (13.8 billion years). Key events include the formation of the first stars and galaxies, the release of the Cosmic Microwave Background (CMB), and the reionization of the universe. The diagram also shows the 21-cm signal being emitted by neutral hydrogen atoms during the Dark Ages and the Epoch of Reionization.



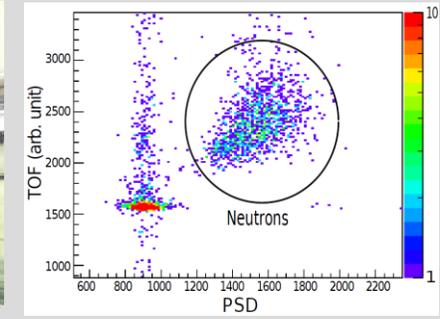
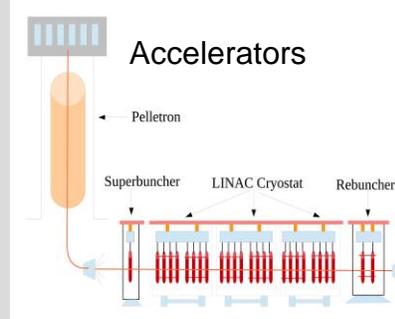
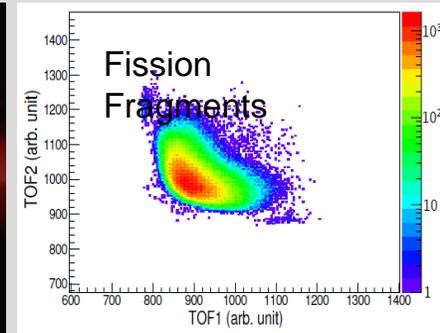
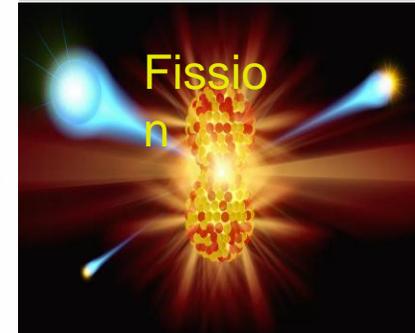
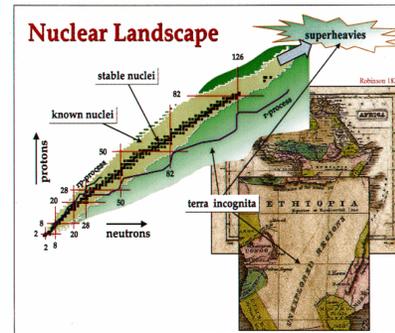
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Department: Physics



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 Scopus ID : 56809023800
 ORCID ID : 0000-0002-7217-331X

Area of Research: Experimental Nuclear Physics, Nuclear Fusion-fission, Nuclear reactions, Magic number, N/Z and CELD, Nuclear dissipation, Neutron and other charged particle multiplicities, Sub-barrier fusion, nuclear instrumentation-detectors, Nuclear astrophysics.





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[bab36f0e7a12](https://nitc.ac.in/department/physics/faculty-and-staff/faculty/228deff0-8938-484b-bd51-bab36f0e7a12)

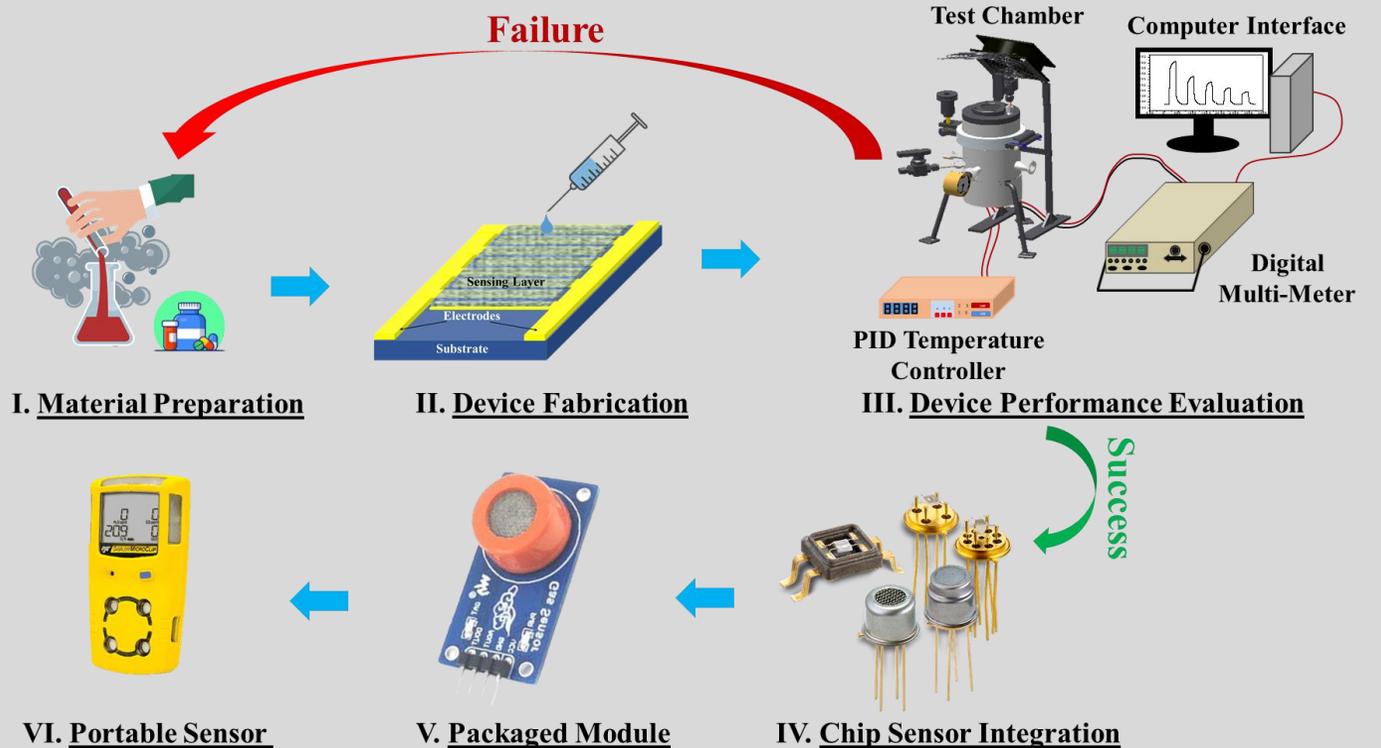
Google Scholar ID :

<https://scholar.google.com/citations?user=oxSka9kAAAJ&hl=en>

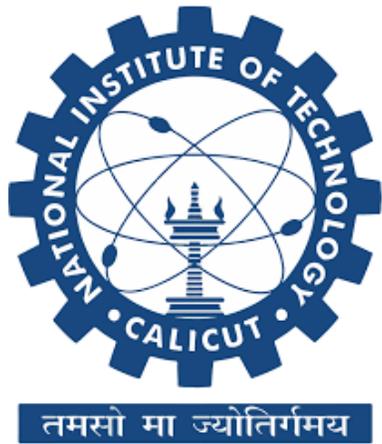
Scopus ID : 57193691528

Area of Research:

- Hazardous Gas and Volatile Organic compounds Sensors.
- Ternary and Quaternary Oxides for Supercapacitor and Battery Applications
- Electrochemical Sensors
- Na-ion Batteries
- Prototype development



NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



Faculty Expertise
**Department of Humanities, Arts
and Social Sciences**

LIST OF FACULTY

- [Dr. Sunitha Sivaraman](#)
- [Dr. Preeti Navaneeth](#)
- [Dr. Reju George Mathew](#)
- [Dr. Vrinda Varma](#)



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राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: Humanities, Arts and Social
Sciences



Area of Research:

Economics of Industries and Services (Telecom, Airline, Insurance and Financial sector, Education)

Financial Literacy (Measurement and Intervention)

Statistical Analysis (Biostatistics, Statistical support for medical research)

Name : Sunitha Sivaraman
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Scopus ID :
Orcid ID :0000-0001-9976-207X



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NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department: **Humanities, Arts and Social Sciences**

Area of Research:

▪ Primary Research Areas include:

- Postcoloniality
- Culture and Identity
- Environmental Humanities

▪ Current domain of work:

- Posthumanism
- Indigenous Communities and their culture
- Environmental Literature
- Childhood Studies
- English Language Teaching
- English as Second Language

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Department: **Humanities, Arts and Social Sciences**



Name: Reju George Mathew

Area of Research:

- Cultural Studies, Film Studies, English Studies, Comparative Literature
- Postcolonial Studies, Critical Caste Theory, Subaltern Studies
- Dalit Literature, Indian Writing in English

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Department: **Humanities, Arts and Social Sciences**



Name : Vrinda Varma

Qualification :

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Ph.D., (Sree Sankaracharya University of Sanskrit, Kalady)

Designation : Assistant Professor of English

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Area of Research:

- Gender Studies
- Translation Studies
- Food Studies
- Memory Studies
- Children's Literature
- English Language Teaching