ACHARYA

# ACHARYA INSTITUTE OF TECHNOLOGY

NAAC ACCREDITED NBA

## International Conference on

# MATERIALS, PROPULSION AND ROBOTICS

# ICMPR–2025

**Knowledge Partners**

Hochschule Hof University of Applied Sciences
A.P.I.U
AIMST UNIVERSITY
SPRINGFIELD RESEARCH UNIVERSITY

**Industrial Partners**

PAKKA Packaging with a Soul

27th & 28th June 2025 | 09:00 am to 04:00 pm
MBA Seminar Hall, Acharya Campus, Bangalore

## About Conference

In the era of advanced technology, materials of new kind are playing important role in the manufacturing sector, aerospace and mechatronics applications. There is need for everyone to update their knowledge and skills to meet the challenges of the today's world. Integrated approach of materials with automation in manufacturing and implementing the smart manufacturing with aero vehicular transport systems. International Conference on materials, propulsions and robotics aims to bring together leading researchers, academicians, scientists, students and industry researchers to exchange and share their new findings, experiences and research results on all aspects on the theme of the conference. This interdisciplinary platform helps to present and discuss researchers, industries and educators the most recent innovations, trends, and concerns adopted in the fields of Novel Materials, Automation, Robotics, 3D Printing, Smart Manufacturing, Mechatronics and Intelligent systems.

## Objectives of the Program

- To facilitate the knowledge, research findings and best practices adopted by the participants including students, academicians, researchers, and industry professionals.
- To provide a platform for networking of participants with peers, experts, and potential collaborators, fostering professional relationships and partnerships.
- To disseminate the latest research findings, innovations and advancements in a particular field promoting the dissemination of new knowledge.
- To encourage interdisciplinary collaboration by bringing together experts from different fields to explore solutions to complex problems that require diverse perspectives.
- To provide a platform for researchers to publish and showcase their work through conference proceedings, journals, and/or other publication channels.

## Important Dates

| Event Details | Dates |
|---|---|
| Date | 24th - 28th Jun 2025 |
| Time | 09:00 AM to 04:00 PM |
| Target Audience | Faculty members, Industry professionals, Research scholars and UG/PG Students. |
| Type of program | Hybrid |
| If Online | MS Teams |
| If Offline | MBA Seminar Hall, Acharya Institute of Technology, Bangalore, Karnataka-560107 / |

## About Institute

Acharya Institute of Technology is established in the year 2000 and committed to engineering education, excelling in teaching, learning, research, and developing professionals who make a difference globally. The faculty at Acharya is not only committed to teaching but they also excelling in research, innovations. The students are motivated to pursue academic skills, research and entrepreneurial activities. Acharya Institute of Technology is located in the south Indian city 'Bengaluru', known as the "Silicon Valley of India". Institute is offering 11 undergraduate programmes, 2 postgraduate programmes and 11 research programmes. The diverse academic programmes attract nearly 5000 students from 60+ countries as well as from all parts of India. Acharya is proud of having a large number of notable alumni around the world.

## Our Mission

Acharya Institute of Technology strives to provide an excellent academic ambience to the students to achieve global standards of technical education, foster intellectual and personal development, meaningful research and ethical service to sustainable societal needs.

## Our Vision

Acharya Institutes, Committed to the cause of value-based education in all disciplines, envisions itself as a fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence

## Our Motto

Nurturing Aspirations Supporting Growth

## About Karnataka

Karnataka being the southern state of India, ruled and named by Kadamba King Mayura Verma during 250 BC. Kannada is the official language of the state having vide diversity in language, culture, and software hub. The capital of Karnataka is Bengaluru, often referred as the "Silicon Valley of India." It is a major hub for technology and innovation, hosting numerous IT companies and startups. The state has a rich cultural heritage with influences from various dynasties like the Kadambas, Hoysalas, Chalukyas, and the Vijayanagara Empire. Traditional dance forms like Yakshagana and classical music are an integral part of Karnataka's cultural identity. Karnataka boasts diverse landscapes, ranging from the lush Western Ghats with hill stations like Coorg, to the Deccan Plateau, and the coastal areas along the Arabian Sea. This diversity contributes to a variety of flora, fauna, and climate zones within the state. The state is home to several historical and architectural wonders. Hampi, a UNESCO World Heritage Site, was the capital of the Vijayanagara Empire. The carved temples of Beluru and Halebidu and the medieval forts like Bidar Fort, showcase the rich history of the state. Karnataka has a robust economy, driven by industries such as information technology, biotechnology, aerospace, and manufacturing. Bengaluru, with its thriving IT sector, has played a significant role in India's economic growth. Karnataka is known for its prestigious educational institutions, including the Indian Institute of Science (IISc) and the Indian Institutes of Technology (IIT Dharwad). It is a hub for research and innovation. Karnataka's cuisine reflects its diverse cultural influences includes iconic foods like Dharawad peda, Mysore Pak, Bisi Bele Bath, Benne Masala Dosa, and various types of traditional foods. The state is also famous for its filter coffee. Karnataka celebrates a variety of festivals with grandeur. The Mysuru Dasara, Hampi Utsav, Ugadi, Huttari so on, are among the major festivals that showcase the state's cultural richness. Karnataka is a blend of technology, tradition and modernity, offering a unique and dynamic experience for residents and visitors alike.

## Committee Members

## PATRONS

- Shri B M Reddy, President, JMJ Education Society, Bengaluru
- Shri B Premnath Reddy, Chairman, Acharya Institutes, Bengaluru
- Smt. Shalini Reddy, Executive Director, Acharya Institutes, Bengaluru
- Mr. Krishna Basani Reddy, Managing Director, Acharya Institutes, Bengaluru
- Shri C B M Bhooshan ES to Chairman, Acharya Institutes, Bengaluru
- Dr. Vidya Shankar S, Vice Choncellor VTU Belagavi

## ADVISORY BOARD

### 1) International Advisory Committee

- Dr.Ravi Pullepudi, CEng, MIMechE Propulsion CAE Product Owner,Jaguar Land Rover, United Kingdom
- Dr. Jayaraj Venkateshan Associate Professor, University College for Applied Sciences and Engineering, Muscat, Sultanate of Oman
- Dr. SivaNadimpalli AssociateProfessor, Mechanical Engineering College Of Engineering, Michigan State University

### 2) National Committe

- Dr. Ram Krishna, Assistant Professor, National Institute of Technology, Jamshedpur.
- Dr. D. Mallikarjuna Reddy, Professor, Department of Design & Automation Vellore Institute of Technology, Vellore.
- Dr. Mahesh S , Ph.D, Associate Professor, Department of Aerospace Engineering, Indian Institute of Space Science and Technology, Trivandram.
- Dr. Neena S. John, Scientist E, Center for Nano and Soft Matter Sciences, Bengaluru.
- Dr. Nataraj J R, Professor, Department of Mechanical Engineering, RVCE, Bengaluru.
- Dr. Suresha B, Professor, Department of Mechanical Engineering, NIE, Mysore.
- Dr. Prakruthi Hareesh, Assistant Professor, BITS Pilani, Bengaluru.
- Mr. Shreekant Meti, Senior Engineer, SUPINCO Automation Pvt, Ltd., Bengaluru.
- K.G. Satyanarayana, Poornaprajna Institute of Scientific Research Ph.D. in Physics-Metallurgical Engineering, Banaras Hindu University.

## STEERING COMMITTEE

- Dr. Rajashekhar Patil, Head, Quality assurance, Acharya Institutes, Bengaluru.
- Prof. Devasis Pradhan, Assistant Director of Research, Acharya Institutes, Bengaluru.

## PROGRAM CHAIR

- Dr. Rajeswari, Principal, Acharya Institute of Technology, Bengaluru.

## PROGRAM Co-CHAIR

- Dr. C.K. Marigowda, Vice- Principal, Acharya Institute of Technology, Bengaluru

## INDUSTRIAL COLLABORATOR

- Mr. Kurian M Akkara, CEO, Al Dossary ENCORE, King Saud Street, Dammam, Kingdom of Saudi Arabia
- Mr. Santhosh, Managing Director, Eta Technologies, Peenya Industrial Estate, Bengaluru
- Mr. Pradeep, Manager, Medini Technologies Vijayanagara, Bengaluru
- Mr. Rajkumar, Manager CADD Centre Peenya Bengaluru
- Mr. Vikas, General Manager, Magnum engineers, Bengaluru

## CONVENORS

- Dr. Manjunatha B, Head, Dept. of Mechanical Engg, AIT, Bengaluru
- Dr. Devarajaiah R M Head, Dept of Mechatronics Engg, AIT, Bengaluru
- Dr. Swetha S, Head, Dept. of Aeronautical Engg, AIT, Bengaluru

## COORDINATORS

- Dr. Pakkirappa H, Professor, Dept. of Mechanical Engg, AIT, ☎ +91 94486-15407
- Dr. Attel Manjunath , Associate Professor, Dept. of Mechatronics Engg, AIT, ☎ +91 88929-54997

## CO-COORDINATORS

- Mr. Kumaran T, Assistant Professor, Dept. of Aeronautical Engg, AIT, ☎ 90956-88835
- Dr. Sanman Shivakumar, Associate Professor, Dept. of Mechanical Engg, AIT, ☎ +91 95388-47045

## COMMITTEE MEMBERS

### 1) Programme Committee :

- Dr. Shadakshari R
- Prof.Akshaya Simha
- Prof. Divya N C
- Prof. Nishchitha M H
- Prof. Sharvani G R
- Prof. Varsha N
- Prof. Allwyn B
- Prof Gopinath

### 2) Organizing Committee

- Dr. Muthukumar
- Prof. Vinod Kumar C S
- Prof. Praveen B B
- Prof. Shrimukhi G Shastry
- Prof. Raju M G
- Prof. Lava Kumar K S
- Prof. Sandeep K
- Prof. Amar Gandge Subash
- Prof .Yeshodha

### 3) Scientific Committee

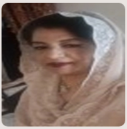
- Dr. Nagaraja K C
- Dr. Shashikala A
- Dr. Manjunatha K N
- Prof. Naveen Kumar S N
- Prof. Sibinraj Rajarathinam
- Prof. Parthasarathy Gunasekaran
- Prof. Akash S
- Prof Athith D

## Resource Persons Details

### Keynote Speaker 1

Dr. Yoshohiro Ishitani

Doctor of Engineering,
Professor at Chiba University, Japan



### Keynote Speaker 3

Dr. Tabassum Sadik B

Associate Professor,
University of Technology and Applied Sciences, Muscat, Sultanate of Oman

### Keynote Speaker 2

Dr. Vasilis Polimenis

Professor,
Provost University of Limassol

### Keynote Speaker 4

Dr. Kyaw Soe Lwin

Pro-Rector,
Technological University, Myeik,
Tanintharyi Region, Myanmar

## Call For Papers

Acharya Institute of Technology, invites you to associate with us for the upcoming Conference -2025, a 2 Days International Conference to be held on 27th -28th June 2025

**1st International Conference on Material Science Propulsion and Robotics (ICMPR 2025)** team with pleasure invites you to contribute with an original research paper, to this blind and peer-reviewed conference.

### Topics for the conference

#### Material Sciences

1. Advanced Materials Sciences
2. Smart Materials
3. Hybrid materials, Composite materials
4. Nanotechnology and nano material's
5. Materials Processing and Characterization

#### Aeronautical Engg

1. Aviation Engineering
2. Propulsion Controls & Drones
3. Aeromaterials & composites for space vehicles
4. Aero vehicle Control system design, sensors

#### Mechatronics Engg

1. Mechatronics system design
2. Automation & control systems
3. Robotics and controls
4. Automatic guided Vehicles
5. Programmable logic controllers

#### Interdisciplinary Engg

1. Environmental concerns
2. Healthcare
3. Agriculture Biotechnology Bioremediation
4. Bioinstrumentation
5. Construction technology

## Plagiarism Policy

Plagiarism Policy: Article should be checked through Turnitin plagiarism software with less than 15 % of similarity Index

#### REVIEW PROCESS & ACCEPTANCE NOTIFICATION

- Step 1: Corresponding author will receive an acknowledgment email containing Paper-Id within one week of paper submission.
- Step 2:To ensure the quality of the manuscript, the supporting team will check for the following:
- Step 3: The manuscript satisfying the above said points, will be sent for review, and the manuscript not satisfying the above-said points will be notified as either "Revise and Resubmit "or "Rejected"
- Step 4:Three reviewers will be assigned to each manuscript and will undergo a double-blind review process.
- Step 5: Based on the review comments, the organizing committee will send the decision to the authors Accept/Accept with Revision/ Reject
- Step 6: If out of three reviewers, the manuscript is accepted by two reviewers, the manuscript will be sent to the Conference chair for further process.
- Step 7: After the final confirmation for acceptance of the manuscript from ICMPR2025 Editorial Board, author(s) will be notified through acceptance mail.

#### Acceptance Notification

Please Note that after Acceptance Notification you cannot withdraw your paper from ICMPR-2025.

#### Paying Registration Fee

- Calculate the registration fee according to your type of authorship.
- Academician (includes Professors and Faculty), Student (includes Research Scholars, PG, and UG Students), and make payment using Online Payment available on the homepage of the website.
  Do not forget to send a scanned copy of the online payment receipt via email:

- Mail the following items in a .zip / .rar format:
  - The camera-ready article files, both in prescribed MS Word and PDF format.
  - A copy of the filled-in Registration Form.
  - A scanned copy of the filled-in Copyright Form.
  - Proof of studentship.
  - A copy of the registration fee receipt for Online Payment.

- The email must have the subject line: “Registration of article ICTSF-2024”

## Submission Guidelines

The papers should be in the following formats: Materials today proceedings format. The page limit for Camera ready papers is 6-8 pages

## Important Dates

| | |
|---|---|
| Submission of abstract | 15-03-2025 |
| Acceptance of abstract | 25-03-2025 |
| Submission of Camera Ready Paper | 17-04-2025 |
| Early bird registration | 29-04-2025 |
| Final Call for registration | 15-05-2025 |
| Date of Conference | 27th June 2025 , 28th June 2025 |
| Mode of Payment (link to be created) | Online |

## Registration

Interested participants may register their names using the form at the bottom of the page. The confirmation regarding participation will be sent through email. To ensure publication of a paper in the Proceedings, at least one author has to register by submitting a normal registration fee within the deadline as indicated below.

## Important Dates

| **Category** | **Offline** | **Online** |
|---|---|---|
| PG Students / Research Scholars | Rs. 2500/- | Rs. 2500/- |
| Academicians / Faculty | Rs. 8000/- | Rs. 8000/- |
| Industry Person / Other Delegates | Rs. 9000/- | Rs. 9000/- |
| Listeners (India) | Rs. 2000/- | Rs. 2000/- |
| Foreign Delegates | $150 | $150 |
| Listeners (Foreign) | 50 USD | 50 USD |

## Publications details

All the selected papers will be published in EAI Indexed Proceedings -Springer.

## Schedule of the Conference

### Day 1: 27.06.2025

**10:00 AM - 10:30 AM**

Inauguration

Venue: Hall of Fame,
AES Block

### Day 2: 28.06.2025

**10:00 AM - 11:00 AM**

Session 6: Keynote Address 3

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**10:30 AM - 11:30 AM**

Session 1: Keynote Address 1

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**11:45 AM - 1:00 PM**

Session 2: Session Speaker 1

MBA Seminar Hall,
Mechanical Seminar Hall

**1:00 PM - 2:00 PM**

Lunch

**2:00 PM - 3:30 PM**

Session 3: Keynote Address 2

MBA Seminar Hall,
Mechanical Seminar Hall

**3:45 PM - 4:30 PM**

Session 4: Session Speaker 2

MBA Seminar Hall,
Mechanical Seminar Hall

**4:30 PM - 5:00 PM**

Session 5: Session Speaker 3

MBA Seminar Hall, Mechanical Seminar Hall

**11:00 AM - 12:00 PM**

Session 7: Session Speaker 4

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**12:00 PM - 1:00 PM**

Session 8: Session Speaker 5

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**1:00 PM - 2:00 PM**

Lunch

**2:00 PM - 3:30 PM**

Session 9: Keynote Address 4

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**3:45 PM - 4:30 PM**

Session 10: Session Speaker 6

Offline: MBA Seminar Hall
Online: Mechanical Seminar Hall

**4:30 PM - 5:00 PM**

Valedictory Ceremony

Chief Guest, Venue: AES Hall of Fame, AIT

**Acharya Institute of Technology**

Acharya Dr. S. Radhakrishnan Road, Acharya P.O
Soladevanahalli, Bangalore - 560107, Karnataka, India.

LOCATE US

**Event Coordinator**

Mr. Kumaran T

Assistant Professor, Dept. of Aeronautical Engg

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