

Symposium on Artificial Intelligence and CAD/CAM/CAE in Engineering/Medicine/Dentistry [AIEMD-2025]



July 12-13, 2025

Indian Institute of Information Technology, Design and Manufacturing (IIITDM)
Kancheepuram, Chennai – 600127 (www.iiitdm.ac.in)

A Centrally Funded Technical Institute under MoE, Govt. of India

About the Institute

Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram is a public institution established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing-oriented engineering education and research. IIITDM Kancheepuram offers Undergraduate, Postgraduate and PhD programme in the areas of Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Smart Manufacturing and Interdisciplinary Design and Innovation.



About the AIEMD 2025

Artificial intelligence (AI) plays a transformative role in medical imaging-based diagnosis, treatment planning, and implants procedures by effectively analyzing patient medical data. For example, the integration of AI with 3D printing technologies facilitates the creation of patient-specific prostheses, significantly improving functional outcomes. This symposium highlights advancements in AI, CAD/CAM/CAE technologies, and their applications in diagnosis, surgical treatments, and the design, fabrication and placement of implants.



Duration of Symposium

July 12-13, 2025 (2 Days) on campus. Hostel accommodation will be provided based on the availability and first come first serve basis.



Participants

Scientists || Academicians || Research Scholars || Physicians || Students from Engineering, Medical, Dental and Clinical Backgrounds || Industry Delegates || Entrepreneurs||

Thrust Areas

Engineering

AI in Medical Data
AI in Disease Diagnosis
AI in CT and MRI
CAD/CAM/CAE in Medicine and Dentistry
Haptic and Robot in Surgical Planning
3D/4D printing in Medicine and Dentistry
Biomaterials and Biomedical Devices
AI in Manufacturing & Digital Twins
Patient Specific Surgical Simulation

Medicine

Advances in Orthopaedic Surgery
Advances in Spine Surgery
Laser/Robot-Assisted Surgery
3D Printing in Surgery
Advances in Cardiothoracic Surgery
Advances in Neurosurgery
Implant Placement Procedure
Forensic Medicine
Haptic and Robot in Medicine

Dentistry

Oral and Maxillofacial Surgery
Advances in Orthodontics
Advances in Prosthodontics
Advances in Periodontics
Dental Bone Grafting and Implant
3D Printing in Dentistry
Laser/Robot in Dentistry
Forensic Dentistry
Haptic and Robot in Dentistry

***The areas mentioned above are indicative and papers from other areas are also requested for submission**

Abstract Submission and Registration

Authors have to submit a one-page abstract of their original, unpublished work using the QR code given.



Abstract Submission

<https://forms.gle/GhTXnCEes2kxXcFp7>

Registration Fee:

Students: **5000 INR**
Faculty, Scientists and all others: **7565 INR**
Foreign: **Equivalent in USD**



Registration

<https://forms.gle/RGPvT9JH2Dbg6SGw7>

Important Dates

Last date for abstract submission	28 th February, 2025
Notification of the acceptance	10 th March, 2025
Last date for 5-page paper submission	15 th April, 2025
Last date for revised paper submission	30 th May, 2025
Last date for registration	20 th June, 2025

Publication

It is planned to publish the peer-reviewed and selected papers of the symposium as proceedings with Springer. 5 Page full paper submissions are requested to consider for publication subject to approval from the publisher.

Organizing Chair: Dr. P. Pandithevan, Associate Professor, Department of Mechanical Engineering, IIITDM Kancheepuram, Chennai – 600127, Tamilnadu, INDIA. <https://shorturl.at/SOVD3>

Organizing Committee of the Symposium

Patron



Prof. M.V. Kartikeyan
Director and Professor of Electronics
and Communication Engineering
IIITDM Kancheepuram, Chennai, INDIA

Organizing Chair



Dr. P. Pandithevan
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Committee Members of the Symposium



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Professor and Head
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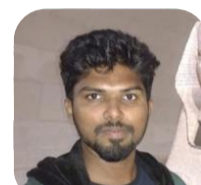
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National & International Advisory Committee



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Professor of Neurosurgery and Orthopaedic Surgery, Department of Neurosurgery, Medical College of Wisconsin, USA.



Prof. Roger. J. Narayan

Distinguished Professor, Joint Department of Biomedical Engineering University of North Carolina and North Carolina State University, USA.



Prof. Tanveer Tabish

BHF Advanced Fellow In Cardiovascular Nanomedicine, Radcliffe Department of Medicine, University of Oxford, UK.



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Keynote Speakers



Prof. Narayan Yoganandan

Professor of Neurosurgery and Orthopaedic Surgery, Department of Neurosurgery, Medical College of Wisconsin, USA



Prof. Roger. J. Narayan

Distinguished Professor, Joint Department of Biomedical Engineering University of North Carolina and North Carolina State University, USA.



Prof. Tanveer Tabish

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Expert Talks



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