Where Engineering **Disciplines Intersect and Innovation Begins** #IMECEIndia2025



This edition is truly our most special yet, as in it we deliver the two

The Engineering Visionaries Behind IMECE India and Student

Engagements at IMECE India.

In this edition, we also explore how advanced manufacturing is evolving into an intelligent ecosystem. Digital Twins powered by AI/ ML predict and optimize production before physical creation, advanced materials and 3D printing technologies materialize

A Heartfelt Welcome to the Third Edition of

most requested features from our readers:

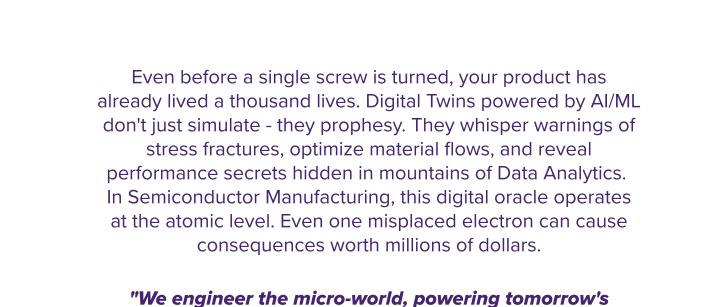
IMECE India 2025 Newsletter!

impossible designs, and robotics and cyber-physical systems drive production with unprecedented precision and adaptability.

#IMECEIndia2025

Advanced

The Digital Oracle



The Materializers

of Dreams

Additive Manufacturing & 3D Printing are the modern alchemists that turn digital gold into physical treasure. They are reality engines that make impossible geometries and 4D materials that reshape themselves like origami masters, responding to environmental whispers. Smart materials can think, adapting their properties to their

> Professor, Department of Mechanical & Aerospace Engineering, IIT Hyderabad

"Materials are the backbone of innovation. We engineer smart, adaptive materials along with

materials redefine what's possible. Our track explores the

very future of fabrication."

Dr. Dheepa Srinivasan

Dean, Office of Research & Innovation, MS Ramaiah University of Applied Sciences and Track Chair, Advanced Materials and Manufacturing Technologies

Track Chair, Additive Manufacturing & 3D Printing



Intelligent Assembly Lines powered by Robotics & Automation transcend programming and become collaborative consciousness. Autonomous Mobile Robots navigate chaos

with precision, while Cyber Physical Systems conduct this industrial symphony in real-time, where each harmony is optimized for maximum impact.

"We bring automotive engineers, AI, software engineers,

Mr. Ramalingam Venkatesan Deputy General Manager Product Development, Caterpillar India Engineering Solutions and Track Chair, Robotics & Automation "We build intelligent collaborators. Our track explores advanced robotics, creating flexible, responsive, and autonomous manufacturing systems."

Dr. Shital Chiddarwar

Are you ready to conduct your own industrial symphony?

Sprint. Connect. Conquer. IMECE India's Student Engagements transforms engineering students into industry-ready professionals

through three career-defining experiences.

Build & Beyond

professional portfolio.

Career Connect

(September 11-12)

while gaining insights into

cutting-edge industry trends.

Elevate ME:

(September 11-12)

Hands-on skill-building sessions

led by industry experts, earning

you official certificates for your

Network directly with engineering

leaders and potential employers

Workshops

and discover how modern industries are transforming through advanced manufacturing. Student Engagements

Join researchers and engineers at IMECE India 2025

Brain Bolt: The

(September 10)

Engineer's Sprint

A 6-hour high-energy innovation

healthcare, and clean energy. With insights from dedicated industry

mentors and ₹3.5 lakh in prizes,

revealed to you beforehand and

India in Hyderabad - just like real

30% will be unlocked at IMECE

you'll tackle real challenges.

70% of the challenge will be

engineering projects.

sprint where you will solve real

industry challenges across 10

sectors including aerospace,

Discover more about the IMECE India

Manufacturing Where Intelligence Meets Ingenuity What if every machine in your factory could think, learn, and evolve? The industrial revolution has gotten smarter. Today's manufacturing floor is not an assembly line but a living organism. Digital neurons fire across interconnected systems and create intelligence that transforms raw materials into products.

"We engineer the micro-world, powering tomorrow's intelligent manufacturing with precision." Dr. Nihar Ranjan Mohapatra Professor, Electrical Engineering, IIT Gandhinagar and Track Chair, Advances in Semiconductor Manufacturing

"Building the brains of modern factories demand ultimate precision: our track explores cutting-edge semiconductor fabrication and control."

Dr. Murugeswaran Surulivel

But the puzzle remains: How do you bridge this digital perfection with physical reality?

Associate Vice President, Insemi Technology Services and Track Chair, Advances in Semiconductor Manufacturing



The Orchestrated

Symphony

cognitive AI, embedded system and electronics engineers to build 'software defined vehicles'. This basically shifts intelligence embedded in the hardware to software which opens a lot of new possibilities." Mr. Rajkumar Sadanandam Global Head of Smart Connected Products, IoT & Digital Engineering Business Unit, TCS and

> "CPS is the nervous system of Industry 4.0. Al transforms data into intelligent action, making factories truly autonomous."

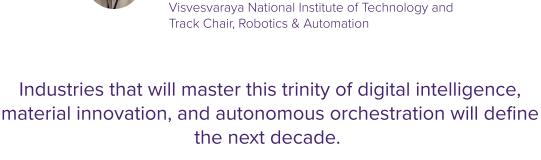
> > Dr. Vijendran Venkoparao

IIT Palakkad Technology IHub Foundation (IPTIF) and Track Chair, Cyber Physical Systems + AI / ML

Chair Professor/Principal Investigator,

"Robots are the manpower in the smart factory. We engineer their intelligence, enabling seamless and collaborative production."

Track Chair, Cyber Physical Systems + Al / ML



Meet The Engineering Visionaries Behind IMECE India Watch this special video to meet the visionaries whose relentless pursuit of engineering excellence is powering the first-ever IMECE in India.

Join us at Student Engagements on September 10-12 as we transform your engineering potential into industry-ready leadership.



www.asme-india.org/imece/tracks

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are open, apply now: