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ICoFT 2020

About the Conference

Our first international conference aims to provide an effective platform for the active participants from the academia, industries and research institutes to connect and discuss the recent advances in Manufacturing, Automation, Design and Energy.

The international conference shall also create a multi-disciplinary summit that transcends departmental, institutional, industrial, public and private research organizations across the globe. It also lends itself to the integration of research and education in the pioneering field of Mechanical Engineering.

Objectives

- Convene the subject experts around the globe to imbibe technical knowledge to the participants in the allied branches of Mechanical Engineering.
- To provide a platform for the advancement of current knowledge in the field of Manufacturing, Automation, Design and Energy.

NIT Puducherry, Karaikal

National Institute of Technology Puducherry, Karaikal (NITPY), is an autonomous public technical institute nestled in the scenes of Karaikal, a coastal enclave in the basin of river Kaveri in the Union Territory of Puducherry. It is one among the 31 National Institutes of Technology of India and is declared as an Institute of National Importance by Government of India under NIT Act. 2007.

The institute was established in 2010 and is spread across 258 acres in the villages Poovam and Thiruvettakudy of Karaikal. The institution is at a constant attempt of making endeavours to scale new heights by developing a synergy between studies, research, consulting/training activities, and placements. The institute is ranked at 130 under the category of "India Rankings 2020 - Engineering" of the 2020 NIRF rankings, released by the Ministry of Education, Government of India.

Department of Mechanical Engineering

Department of Mechanical Engineering was established in July 2014 with an undergraduate (B.Tech.) Program. At present, the department also offers PhD programme. Dedicated faculty members with expertise in diverse domains of mechanical engineering such as Computer Aided Design, Industry 4.0, Smart Manufacturing, Ergonomics, Design Automation, Power Plant Structural Analysis, Natural Fibre Composites, Energy Engineering, Renewable Energy, Thermal and Fluid Science, which contributes to the department knowledge hub. Likewise, the non-teaching staffs are sound in technical skills and help to strengthen the student's theoretical understanding through lab practices.

Keynote Speakers

Prof. Ramamurthy Prabhakaran Eminent Professor
Department of Mechanical and Aerospace Engineering
Old Dominion University, Norfolk, UK



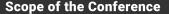
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Paper pertaining to all Mechanical Engineering related topics. Topics include, but not limited to, the following areas:

Manufacturing

Additive Manufacturing
CAD/CAM/CAE/Reverse Engineering
Composite and Polymer Processing
Digital Manufacturing and Smart Systems
Green and Sustainable Manufacturing
Machine Tool Design
Machining, Forming and Joining Technology
Materials Technology
Metrology and Quality
Micro and Nano Manufacturing
Modelling and Simulation in manufacturing
Non-Traditional / Advanced Machining processes
Precision and Surface Engineering

Automation

AR/VR in Automation
Robotics and Automation
CAD and Automation
Design Automation
Industry 4.0
HoT
Manufacturing Automation
Modeling and simulation
Optimization algorithms
Process Automation & Monitoring
Sensor Technology
UAV, AUV

Design

Aerospace design
Bioengineering design
Design for X and additive manufacturing
Design with composite materials
Design theory, methodology and management
FEA and its applications
Industrial design
Mechanical design
Product design and development
Tribology

Energy

AI and ML for Renewable Energy Sources (RES)
Computational Methods for RES
Energy Storage
Energy Security & its policies
Energy Modelling, Simulation & Optimizations
Hydrogen & Fuel Cells
Micro & Nano Energy Materials
Net Zero Energy concepts
Other Conventional Energy Sources and its technologies
Renewable (Green) Energy Sources and its technologies

Paper Submission

Authors are invited to submit their contributions through the Easy chair

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Peer reviewing will be done by the eminent experts in respective research areas. At least one author should register for each accepted paper and it has to be presented in the conference. Only registered / presented papers in the conference will be published in the the peer reviewed International journals /Conference proceeding.

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