

COPEN -11

International Conference on Precision, Meso, Micro and Nano Engineering

December 12-14, 2019.

Precision Meso, Micro and Nano Engineering, widening horizons in technologies and applications



IIT INDORE

Conference Topics

Precision Manufacturing

- Machining, forming and casting
- Assembly processes
- Characterization of functional surfaces and sub-surfaces
- Applications in aerospace engineering

Materials Processing for Precision Engineering

- Micro and Nano fabrication
- Materials for aerospace applications
- Metallic alloys and foams
- Mechanical behavior of materials
- Microstructure–property relations
- Composites and intermetallics
- Polymers, powder compaction
- Surface and coating technology

Multi- Scale Modeling and Manufacturing

- Micro-machining and forming
- Micro-scale assembly and systems
- Micro-mechanics and nano-mechanics
- MEMS/MOEMS
- Nano machining and polishing
- Chemical and electrolyte processing at nano scale
- Laser material processing
- Service oriented manufacturing

Smart Manufacturing/Industry 4.0

- Cyber-physical production system
- Standard for Industry 4.0
- Artificial intelligence for manufacturing
- Prognostics in manufacturing
- Sensors and controls
- Cyber (Digital) twin technology
- Holonic manufacturing
- Decentralized shop floor decision-making
- Agent based systems for manufacturing
- Cyber security in manufacturing
- AR/VR Applications in manufacturing
- Service oriented manufacturing

Emerging Manufacturing Techniques

- Additive manufacturing
- Manufacturing application in Biotechnology and biomedical
- Micro/Nano metrology

Micro-Mechatronics

- Micro-Sensor design and fabrication
- Micro-Actuator design and fabrication
- Micro-Robotics



Publications

- All the papers are likely to be published in proceedings with ISBN number.
- Accepted papers are likely to be published in special issue in the following journals .
- *International Journal of Micro Manufacturing,*
- *International Journal of Precision Technology,*
- *International Journal of Mechatronics and Manufacturing systems*
- Submission of paper page limit is 6 pages.
- Case study and technology demonstration for industries page limit is 2 pages.

Important Dates

Full paper submission deadline	10 th September 2019
Addressing reviewers comments	30 th September 2019
Camera ready paper submission	10 th October 2019
Paper acceptance intimation	15 th October 2019
Early bird registration till	15 th November 2019
Registration till	12 th December 2019

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