



I-4AM
2019



**International Conference
on Industry 4.0 and
Advanced Manufacturing**

28th-29th June 2019

J. N. Tata Auditorium

Indian Institute of Science, Bangalore

Conference Chair: Professor Amaresh Chakrabarti, Indian Institute of Science, Bangalore

Vice-Chair: Dr Manish Arora, Indian Institute of Science, Bangalore

Industry 4.0 uses connected intelligence to improve productivity, quality, flexibility, safety & sustainability across manufacturing enterprises, in which advanced manufacturing such as additive manufacturing or robotics plays a critical role. I-4AM 2019 (pronounced i-forum 2019) provides a platform to bring together all stakeholders in manufacturing and Industry 4.0 in India and abroad to deliberate on the nature, needs, challenges, opportunities, problems and solutions in this transformational area. A specific focus of I-4AM 2019 is to provide a platform for evolving a vision of, and enablers for sustainable, affordable, and human-centric Industry 4.0, and showcase cutting edge practice, research and educational innovation in this area.

I-4AM 2019 is organised by the Centre for Product Design and Manufacturing, Indian Institute of Science, under its CEFC on I4.0India@IISc (Smart Factory) within the SAMARTH Udyog Bharat 4.0 programme of the Department of Heavy Industries, Government of India.

Topics of the conference include but are not limited to:

Materials Processing & Joining

- Additive manufacturing
- Powder generation
- Friction stir welding
- Deformation processing/ modelling
- Composites

Controls, Autonomous Systems, Robotics

- AGVs/ walking robots/ drones for factory traffic management
- Micro/ nano manufacturing
- Cobotics

Policy & Entrepreneurship

- Start-ups, eco-systems, incubators
- Distributed/ inclusive manufacturing

Supply Chains

- Blockchain
- Market platforms
- Smart contracts
- Network games
- Dynamic routing/ control
- Large scale logistics
- Supply chain simulation
- Optimisation

Industry 4.0

- Wireless sensor networks
- Cyber-security protocols
- Fog/ edge computing
- Artificial Intelligence
- Certification

Digital Manufacturing

- CAD/CAM/CAE
- DFX
- Simulation/visualisation
- AR/VR/MR
- Digital twins
- Model-based manufacturing, informatics, quality control
- Computational metrology
- Digital Human modelling

Sustainable Manufacturing

- Assessment/ traceability
- Lifecycle costing
- Developing new sustainable materials & manufacturing processes

Important Dates

- Call for Papers:* 22 Feb 2019
- Full Paper Submission:* 15 Apr 2019
- Paper Acceptance:* 30 Apr 2019
- Final Paper Submission:* 15 May 2019
- Early Bird Registration:* 15 May 2019