

International Conference on **ROBOTICS and SMART MANUFACTURING (RoSMa2018)** 19-21 July 2018

Organized by:

Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram (An Institute of National Importance Established by the Ministry of Human Resource Development, Govt. of India)

About Institute

Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) is an Institute of National Importance established in 2007 by the Ministry of Human Resource Development, Government of India, to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantage of Indian products in global markets. The Institute is presently offering B.Tech programmes in Computer Engineering, Electronics and Communication Engineering (Design & Manufacturing), Mechanical Engineering (Design & Manufacturing) and Smart Manufacturing, 5 Dual Degree Programmes leading to B.Tech and M.Tech Degrees, M.Des in Electronic Systems Design, Communication Systems Design, Mechanical Systems Design, M.Tech- Smart Manufacturing and inter-disciplinary Ph.D programmes in core and applied areas of engineering.

About Conference

This International conference is a forum which will discuss about the current issues and trends in the development of robotics, application of smart manufacturing, application of smart materials in robotics and allied areas. Experts from Industry and academia will be delivering key-note lectures. An International Student Robot Competition is also part of this conference. This is the first edition in "Robotics" series. Subsequent editions will be once in two

Paper Submission

Authors are invited to submit only original research papers of best quality as per the template uploaded. All paper submissions, review management and submission of final version will be through "EasyChair" Conference Management System. It is planned to publish all accepted papers online by the publisher (Elsevier) on conference



Paper Acceptance and Publication

All accepted papers will be published in an international journal, Procedia Computer Science of Elsevier (SCOPUS Indexed) and hence strict evaluation procedure would be followed. Therefore, authors are requested to submit only good quality original unpublished papers. All papers submitted will be peer-reviewed by two reviewers in a double blinded manner and based on the recommendations of the reviewers; the reviewer's comments will be intimated to the authors through the online submission system. The camera-ready manuscript, after incorporating the revision/comments, as recommended by the reviewers, need to be submitted after incorporating the revision/comments, as recommended by the reviewers, need to be submitted before deadline.





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Best Paper Award

Authors of best 10 papers accepted and registered for the conference, will be intimated to prepare a poster and present the same in the conference in addition to oral presentation. Finally, from the 10 best papers, the first three papers will be selected and best paper award will be presented during the conference. The criterion for the selection of best papers is based on review reports, evaluation of poster and oral presentations. The best paper awards consist of cash prize and citation. Further details will be updated in the conference website.

Key Note Speakers



Prof. Rezia Molfino

University of Genova, Italy Mechatronics, Robotics, Parallel Mechanisms, Smart Materials, Automation, Robot control



Prof. Jinwhan Kim

Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea

Mobile and Marine Robotics, Unmanned Surface Ships and Underwater Vehicles, Vehicle Intelligence, Navigation and Control



Prof. Huang Weimin

NTU, Singapore

Shape Memory Materials and Technologies, Smart Actuators and Devices for Robots, Active Assembly and Disassembly, Surface Patterning



Prof. S K Saha

IIT Delhi, India

Multibody Dynamics, Robotics, Design, Mechatronics



Prof. Ashish Dutta

Department of Mechanical Engineering.

IIT Kanpur, India

Humanoid Robotics, Intelligent Control Systems, Micro-sensors and Actuators, Bio-robotics

International Advisory Committee

Prof. Ananthasuresh G K. IISc. India

Prof. Ashish Dutta, IIT Kanpur, India Prof. Asokan T. IIT Madras, India

Prof. Fouad Bennis, Ecole Centrale de Nantes, France Prof. Fulvio Mastrogiovanni, University of Genova, Italy

Dr. Gerald Seet, NTU, Singapore Prof. Jinwhan Kim, KAIST, Republic of Korea

Dr Keng Huat Hoh, City University of Hong Kong Prof. Manfred Kohl, Karlsruhe Institute of Technology (KIT), Germany

Prof. Matteo Zoppi, University of Genova, Italy

Dr Mohan Rajesh Elara, SUTD Singapor Prof. Nilesh J. Vasa, IIT Madras, India

Dr. Palani I.A., IIT Indore, India Dr. Pandiyan SR, IIITDM Kancheepuram, India

Prof. Ponnambalam S G, Monash University, Malaysia

Prof. Renato Zaccaria, University of Genova, Italy

Prof. Rezia Molfino, University of Genova, Italy

Prof. Saha S K, IIT Delhi, India Dr. Satya Prasad M, Ashok Leyland, India

Prof. Teresa Zielinska, WUT. Poland

Prof. Wojciech Szynkiewicz, WUT, Poland

International Student Robot Competition (ISRC-RoSMa2018)

Please visit Conference website for details regarding ISRC and for all other updates.

Conference Venue

The conference will be held at IIITDM Kancheepuram Campus, Vandalur-Kelambakkam Road, Chennai-600 127, India

Sponsors



The Robotics Society





Industrial Exhibition

Yes

Conference Tour Mahabalipuram (a UNESCO World Heritage site)

Scope and Topics

- 1. Mobile and Autonomous Robots
- 2. Milli. Micro and Nano Robots
- 3. Serial, Parallel and Compliant Mechanisms.
- 4. Robots in Manufacturing Automation
- 5. Robot Design, Modeling, and Simulation
- 6. Robot Control and Al
- 7. Haptics and Medical Robotics
- 8. Collaborative and Swarm Robotics
- 9. Underwater and Marine Robotics
- 10. Space Robotics
- 11. Wearable Robotic Devices
- 12. Image Processing for Robotic Applications
- 13. Smart Materials in Robotic Applications
- 14. Sensors and Actuators for Robotic Applications
- 15. Robotics and IoT
- 16. Robots in Heritage Protection
- 17. Humanoid and Bio-Inspired Robots
- 18. Social, Rescue, and Demining Robots
- 19. Robot Performance Evaluation and Benchmarking
- 20. Robots in Extreme Environments
- 21. Robots in Smart/Digital Manufacturing
- Automation and Robotics in Agriculture
- 23. Robots in Home Automation
- Robot Assisted Additive Manufacturing
- 25. Optimization Techniques in Digital Manufacturing
- 26. Aerial Robots in Surveillance
- 27. Robots in Sports and Entertainment
- 28. Advanced Manufacturing Technologies
- 29. Multi Robotic Systems in Manufacturing
- 30. Industry Automation and IIoT

Papers from other allied areas in the domain of Robotics, Automation, Smart/Digital/Advanced Manufacturing, and Smart Materials are also welcome.

31 March 2018

15 March 2018

: 15 April 2018

Important Dates

Submission of Full Paper Intimation of Review Results

Submission of Final Manuscript /

Registration : 30 April 2018 Conference : 19-21 July 2018

Registration Fee*

Delegates	National**	International
Student Authors & Research Scholars	₹ 6000	USD 300
Delegates from Academics/Research	₹ 8000	USD 350
Delegates from Industries	₹ 10000	USD 400
Extra Page Charges	₹1000/Page	25USD/Page

* Includes: Journal publication charges, conf. kit, refreshments and lunch on conf days, tour(transport) and banquet dinner. Accommodation charges not included.

** GST@18% extra

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Conference Chair-RoSMa2018

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