RoSMa2018 (12-14 July 2018)

Email: rosma2018@iiitdm.ac.in

Conf. URL: www.iiitdm.ac.in/rosma2018.html

Subject Domains

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 AI

7. Haptics and Medical Robotics

8. Collaborative and Swarm Robotics

9. Underwater and Marine Robotics

10. Space Robotics

11. Wearable Robotic Devices

12. Robotics and Image Processing

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 Robotics

19. Robot Performance Evaluation and Benchmarking

20. Robots in Demining

**KEY NOTE SPEAKERS**



1. **Prof. Rezia Molfino, University of Genova, Italy**

**Research Areas:**

President of SIRI (Italian Association of Robotics and Automation); National Coordinator at IFR; Expert Evaluator appointed by the European Commission; Expert evaluator of the Italian Ministry of Industry, Trade e Handicraft; Member of “cabina di regia” NMP of Italian Ministry of Education and Research for the VII Fremework Program; Member of Manufacture technology platform; Member of the CIM Experts National Group; Member of the Board of Directors of the ROBOCUP Italian Team; IEEE member; AIIA (Associazione Italiana di Intelligenza Artificiale) member; ISCS (Italian Society for Computer Simulation) member; IAS (Intelligent Autonomous Systems) Society member; CLAWAR (Climbing and Walking Robots) association member; EURON (European Robotics Network) member



1. Prof. Jinwhan Kim

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

Ph.D.-Stanford University

**Research Areas:** Mobile and Marine Robotics, Unmanned Surface Ships and Underwater Vehicles, Vehicle Intelligence, Navigation and Control

1. 

[Prof. Huang Weimin](http://www3.ntu.edu.sg/home/mwmhuang/), NTU, Singapore

* PhD-Cambridge University, UK

**Research Interests:** Shape Memory Materials and Technologies   
Smart Actuators and Devices for Robots    
Active Assembly and Disassembly   
Surface Patterning 



1. **Prof. S K Saha, IIT Delhi, India**

* Ph.D.- McGill University, Canada

**Research Interests:** Multibody Dynamics, Robotics, Design, Mechatronics



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| 1. **Prof. Ashish Dutta**   **PhD- Akita University, Japan**  **Department of Mechanical Engineering, IIT Kanpur, India**  **Research Interests: Humanoid Robotics, Intelligent Control Systems, Micro-sensors and Actuators, Bio-robotics** |
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1. **Organizing Committee**

Honorary Chair : Prof. Banshidhar Majhi, Director of IIITDM Kancheepuram

Organizing Chair : Dr. Sreekumar M, Faculty in Mechanical department, IIITDM Kancheepuram

Organizing Co Chairs : Dr. Raja B, Faculty in Mechanical department, IIITDM Kancheepuram

Dr. Masilamani V, Faculty in Computer engineering department, IIITDM Kancheepuram

Dr. Priyanka Kokil, Faculty in Electronics department, IIITDM Kancheepuram

1. **Review Committee**
2. **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, Korea Advanced Institute of Science & Technology (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, Singapore University of Technology and Design, Singapore

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, Warsaw University of Technology, Poland

Prof. Wojciech Szynkiewicz, Warsaw University of Technology, Poland

1. **Important Dates**

Submission of Full Paper: 1-31 January 2018

Intimation of Review Results: 31 March 2018

Submission of Final Manuscript /

Registration: 30 April 2018

Conference: 19-21 July 2018

Registration for Student Robot Competition: Updated soon

1. **Registration Fee (Conference)\***

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| **Delegates** | **National** | **International** |
| Student Authors &  Research Scholars | ₹ 6000 | 300 USD |
| Delegates from Academics/Research | ₹ 8000 | 350 USD |
| Delegates from Industries | ₹ 10000 | 400 USD |
| \* Includes: Journal publication charges, conf. kit, refreshments and lunch on conf. days, tour(transport) and banquet dinner. Accommodation charges are not included. | | |

1. **Registration Fee (ISRC-RoSMa2018: International Student Robot Competition)\***

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| **Delegates** | **National** | **International** |
| Student Team  (One Member)  Each additional member | ₹ 10000  ₹ 2000 | 300 USD  100 USD |
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| \* Includes: Conf. kit, refreshments and lunch on conf. days, tour and banquet dinner. Accommodation charges not included. | | |

1. **Address for Correspondence:**

**Dr M Sreekumar**

Conference Chair-RoSMa2018

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Melakottaiyur, Chennai-600 127, INDIA.

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**E mail: rosma2018@iiitdm.ac.in**

Conf. URL: www.iiitdm.ac.in/rosma2018.html

Inst. URL: www.iiitdm.ac.in

1. **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 presentation. The best paper awards consist of ***cash prize and citation***. Further details will be updated in the conference website.

1. **Accommodation**

For student authors and research scholars, accommodation will be arranged, on request, in student hostels. For all other delegates, support will be provided to arrange/book hotel accommodation nearby institute campus.

1. About the Institute

IIITD&M Kancheepuram is an academic and research centre of excellence established by the Ministry of Human Resource Development (MHRD), Govt. of India in 2007 as an Institute of National Importance. The Institute is offering novel and first of its kind academic programmes namely, B.Tech and Dual Degree (DD) in Design and Manufacturing (Mechanical/Electronics/Computer Engineering/Smart Manufacturing), Master of Design (M.Des) and PhD. The Institute is functioning inside a residential campus located in the southern part of Chennai.

1. About the Conference

This International conference is a forum which will discuss about the current issues and trends in the development of robotics, application of smart materials in robotics and allied areas. Experts from Industry and academia will be delivering key-note lectures.

1. Submission of Papers

Authors are invited to submit only full paper as per the prescribed format which will be furnished in the conference website. The prospective authors and interested participants are requested to watch the conference/institute website for updates and for further information. The submission of papers shall be through ***Email*** only.

1. Paper Acceptance

All accepted papers will be published in an international journal and hence strict evaluation procedure, as recommended by the journal, 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 b l i n d e d ma n n e r a n d b a s e d o n t h e recommendations of the reviewers; the reviewer's comments will be intimated to the authors. The camera-ready manuscript, after incorporating the

revision/comments, as recommended by the reviewers, has to be submitted before deadline. However, authors who do not wish to publish in the International Journal can also submit the paper to present in the conference.

1. Conference Tour

Mahabalipuram (Add photographs)

1. Cultural Events

India has rich…. (Add photographs)

1. Industrial Exhibition

On 13 July 2018 (14-16 Hrs)

1. Conference Venue

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