



# ADVANCES IN ROBOTICS

## AIR 2019

4<sup>th</sup> International Conference of The Robotics Society  
Indian Institute of Technology Madras,  
Chennai, 600036 India

02 - 06 July 2019



The Robotics Society

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### Plenary Speakers

#### Prof. Blake Hannaford

Professor and Director,  
Bio robotics Laboratory,  
University of Washington, USA

#### Prof. Eduardo Nebot

Director,  
Australian Centre for Field Robotics  
University of Sydney, Australia

#### Prof. Jan Peters

Dept. of Computer Science, Technische  
Universitat Darmstadt, Germany

### Keynote Speakers

#### Prof. Davide Scaramuzza

University of Zurich, Switzerland

#### Prof. Nobuto Matsuhira

Shibaura Institute of Technology, Japan

#### Prof. Taewon Seo

Hanyang University, South Korea

### CALL FOR PAPERS

International Conference on Advances in Robotics (AIR) is a series of biennial conference organized by The Robotics Society (TRS). The conference aims to create a forum to present and exchange new ideas by researchers and developers from India and abroad working in the fields of robotics and its applications. AIR 2019 will be held at IIT Madras, Chennai, during 02-06 July 2019.

### Contributed Papers

The organizers of the conference invite unpublished research work in the following fields of Robotics (representative list, can include other related topics):

- Kinematics, dynamics, control and simulation of autonomous intelligent systems
- Design of robotic mechanisms
- Man-machine interface and integration
- Robotics-related computer hardware, software, and architectures
- Vision and non-contact sensory systems
- Tactile and other contact sensory technology
- Active sensory processing and control
- Machine learning and artificial intelligence for robotics
- Medical, rehabilitation and assistive robotics
- Bio-mimetic and bio-inspired robotic systems
- Swarm robotics
- Navigation and control of unmanned vehicles – Ground, Underwater
- Drones and drone applications
- Virtual reality and haptics
- Tele-robotics
- Humanoid robots
- Soft robotics

### Workshop and Tutorials

A full day during the conference is dedicated to workshop and/or tutorials on robotics, conducted by renowned resource persons.

### Doctoral Symposium

A symposium will be held involving presentation from PhD students working in all areas of robotics. It would provide an opportunity to showcase their ongoing research work and interact with experts in the field for feedback. Both the student and research advisor should attend. More details can be found at conference website.

### Submission Instructions

The authors have to follow ACM format of double column, within 6 page limit. The submitted papers will be double blind peer-reviewed to determine acceptance. The accepted papers, after incorporation of reviewer's comments, will be published by ACM as International Conference Proceedings Series.

### Registration

#### Indian Delegates:

Govt. & Academic Institutes : Rs. 5,000  
Industries : Rs. 10,000  
Full-time students(with a valid ID) : Rs. 3,000  
20% discount for TRS members

#### International Delegates:

Academic & Industries : USD 200  
Students : USD 100

### Important Dates

Call for papers : 01 Dec 2018  
Submission deadline : 15 Feb 2019  
Decision notification : 05 April 2019  
Camera-ready Submission : 05 May 2019  
Conference dates : 02-06 July 2019

For more info., please visit  
<http://advancesinrobotics.com/>

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