

Special Session on

“Autonomous Mobile Robots and Intelligent System: Recent Trends and Applications”
organized by

Principal Organizer: Dr. Ankit A. Ravankar (ankit@eng.hokudai.ac.jp)
Hokkaido University, Japan

Organizer 1	Dr. Takanori Emaru	Hokkaido University, Japan	emaru@eng.hokudai.ac.jp
Organizer 2	Dr. Yukinori Kobayashi	Hokkaido University, Japan	kobay@eng.hokudai.ac.jp
Organizer 3	Dr. Abhijeet Ravankar	Hokkaido University, Japan	abhijeet@eng.hokudai.ac.jp
Organizer 4	Dr. Yohei Hoshino	Kitami Institute of Technology, Japan	hoshinoy@mail.kitami-it.ac.jp
Organizer 5	Dr. Liang-Liang Yang	Kitami Institute of Technology, Japan	yang@mail.kitami-it.ac.jp
Organizer 6	Dr. Chieh-Li Chen	National Cheng Kung University, Taiwan	chiehli@mail.ncku.edu.tw

Call for Papers

Theme: Recent years have seen tremendous progress in the field of autonomous mobile robots. From self-driving cars to UAVs, autonomous robots (land, air and water) are increasingly being developed for different applications such as service robots, for search and rescue, in agriculture, maintenance and inspection; surveillance and mapping. The availability of low cost sensors and powerful embedded systems, have enabled rapid development of intelligent systems in the field of mobile robotics. This session is aimed to discuss new emerging ideas and applications for the development of intelligent systems for autonomous mobile robots. The session will bring together researchers from wide range of fields and provide an open discussion forum to get new ideas and constructive feedback from a lot of researchers.

We are interested in original ideas and unpublished contributions from diverse areas of robotics and intelligent systems. System design, works in progress, and simulations are also welcome, provided they meet the guidelines of the session.

The topics include but are not limited to :

- Autonomous Mobile Robots
- Localization and Mapping
- Navigation and Path Planning
- UAVs
- UGVs
- Intelligent Control
- Deep Learning and Machine Learning for robotics
- Swarm Robotics
- Multi-robot Systems
- Smart Actuators for Robots
- Manipulator Systems
- Vision Systems
- Sensors for Mobile Robots

Submissions Procedure: All the instructions for paper submission are included in the conference website <http://www.sii2017.org> . A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics subjects to further rounds of review

Deadlines:

Reception of full paper: June 30, 2017
Paper acceptance notification: September 20, 2017
Camera ready paper reception: October 20, 2017