

CALL FOR PAPERS



Special Session on

Intelligent Robotics: Control, Sensors and Navigation

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA



TOPIC OF THE SPECIAL SESSION

The special session aims to bring researchers working in the development of new intelligent robotics as an interdisciplinary field and its evolution toward having Autonomous capabilities. Intelligent robotics systems that have the ability to adapt its behaviors to match different task requirements to various environments, interact, and autonomously navigate. This demands to develop different and effective control strategies, intelligent algorithms and functions, smart sensors and actuators and mechanisms. Intelligent robotics research approaches incorporate techniques drawn from naturally made substances, and may resemble biological systems in structure and/or function as relevant.

Topics of the Session

- Intelligent control architectures and strategies for single and multiple robotics systems
- Smart sensors and actuators
- Intelligent mechanisms
- Mapping, localization and dynamic Environments
- Autonomous Robotics Architectures
- Robot function, behavior and learning techniques
- Navigation Techniques
- Bio-inspiration and Artificial Life in support of autonomous robotics systems development

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Author's schedule:

- Deadline for submission of special session papers
May 1st 2018
- Notification of acceptance
July 15th 2018
- Deadline for submission of final manuscripts
September 7th 2018

For additional information please visit www.iecon2018.org