



ADVANCED ROBOTICS Call for Papers

Special Issue on Robot Learning

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Robotics is a branch of engineering and science where information processing meets the physical world. Robots understand the real world through the perception and action upon it. Artificial intelligence technologies have been highly developed in the cyberspace, however, there remains much work to be done to embody intelligent behavior in the physical world. They are increasingly being implemented into physical space, carrying the air of revolution to our society. The integration of artificial intelligence with robotics creates a new research trend and that has the potential for tremendous impact on society. This special issue solicits papers that examine how intelligent robots can be established through a combination of visual perception, mapping, motion planning, generation, control, and communication. The topic of the special issue includes, but is not limited to

- Learning models of robots, tasks, and environment.
- Learning multiple levels of representations from perception to actions.
- Learning human-robot and robot-robot interaction/communication.
- Combining learning algorithms with motion planning, synthesis, and control.
- Deep learning from massive physical data sets.
- Probabilistic inference on sensory-motor system.

Submission: The full-length manuscript (either PDF file or MS word file) should be sent by **September 30, 2019** to the office of Advanced Robotics, the Robotics Society of Japan through the homepage of Advanced Robotics (<http://www.rsj.or.jp/AR/submission>). Sample manuscript templates and detailed Instructions for Authors are available from the journal homepage.