AUTONOMOUS ROBOTS

~Special Issue Call for Papers~

"Active Perception"

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Autonomous Robots invites papers for a special issue on active perception. Active perception involves controlling sensor parameters to achieve a sensing task. Traditionally, active perception has been focused on tasks such as object inspection which take place in a confined space. Existing sensor planning approaches are typically reactive and are not informed by past experience. Recently there has been significant interest in extending the scope of active perception to (1) more sophisticated sensing tasks (e.g., object recognition and detection); (2) expansive environments such as farms; and (3) planning approaches which use prior knowledge, seek information and are non-myopic.

This special issue follows a workshop at the IEEE International Conference on Robotics and Automation (ICRA 2015) with a similar theme.

Papers addressing one or more of the topics below are of particular interest:

- Sensor planning for exploration and model building
- Active perception in outdoor environments
- Next-Best View planning
- Active object detection and recognition
- Sensor placement
- Active perception in multi-robot systems
- Visual servoing
- Novel problem formulations in active perception

For more information, please contact the guest editors.

PAPER SUBMISSION:

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.

All papers will be reviewed following standard reviewing procedures for the Journal.

Papers must be prepared in accordance with the Journal guidelines: http://www.springer.com/10514

Manuscripts must be submitted to: http://AURO.edmgr.com. Choose **"Active Perception"** as the article type.

Important Dates

- **Paper submission deadline:** 30 January 2016
- **Notification to Authors:** 30 April 2016
- **Final manuscript due:** 30 August 2016
- **Planned Final Publication:** Late 2016 – Early 2017

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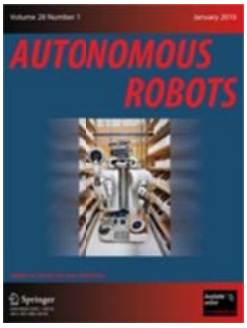

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