



New Localization Methods and Motion Tracking Algorithms for Mechatronic Systems, Robots and Unmanned Vehicles

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Message from the Guest Editors

The localization problem of mobile robots/mechatronic systems is the first critical task that needs to be addressed in robot control applications.

This Special Issue aims to invite high-quality research papers and up-to-date reviews that address new, challenging and interesting localization algorithms, sensor fusion solutions and motion tracking approaches in robotics/mechatronics applications. Topics of interest include, but are not limited to, the following:

- Low-cost embedded system-based solutions;
- Real-time and online sensor fusion algorithms;
- Machine-learning-/deep-learning-aided localization approaches;
- Artificial-intelligence-based sensor fusion solutions;
- Adaptive algorithms in localization;
- New sensor calibration techniques and multi sensor approaches;
- Pattern-recognition-based intelligent sensory solutions;
- Intelligent filtering algorithms and signal processing approaches;
- New dynamical model implementations in filtration;
- Novel sensor combinations and filter structures in localization solutions;
- Human-machine interface-based applications in motion tracking.





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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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