

Special Issue

Modeling, Control, and Applications of Field Robotics

Message from the Guest Editors

This Special Issue focuses on design, modeling, and control techniques for field robotics and possible applications of those results to give a large and complete view of complex research issues.

Submissions to this Special Issue are solicited to represent a snapshot of the field's development by covering a range of topics that include but are not limited to new methods, algorithms, solutions, and applications in the following areas:

- Design of robotic systems for challenging field applications
- Novel perceptions of field robots including passive and active methods
- Mobile manipulators for active sensing and sampling
- Long-term autonomy and navigation in unstructured environments
- Data analytics and real-time decision making
- Low-cost sensing and algorithms for full-day operations
- Human user interfaces
- Multi-robot coordination
- Sensor networks
- Large-scale mapping
- Field robotics applications: agriculture, construction, mining, forestry, urban, underwater, military, space, and etc

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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