Special Issue

Motion Planning and Control for Robotics

Message from the Guest Editor

Motion planning and related control issues are fundamental aspects of robotics, from both theoretical and the practical points of view. Indeed, the literature on the planning of geometric paths and the generation of time-based trajectories, taking into account the compatibility of such paths and trajectories with the kinematic and dynamic constraints of a manipulator or a mobile vehicle, is vast and full of historical references. The aim of this Special Issue is to promote advancement in the following topics:

- Collision-free robot path-planning in dynamic or unstructured environments
- Online trajectory generation subject to kinodynamic constraints
- Real-time systems for robotic motion-planning and control
- Embedded control architectures for robotics
- Reactive adaptation of robot motion-plans
- Perception-based robot motion-control
- Trajectory tracking with advanced control methods
- Robot motion-control in multi-robot systems or human-robot collaborations

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2019)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/17787

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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 guest-edited by leading experts in selected topics of interest.

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