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Motion Planning and Control for Robotics

Guest Editor:

Dr. Marcello Bonfè
Department of Engineering, University of Ferrara, 44122 Ferrara, Italy

Deadline for manuscript submissions:
closed (31 August 2019)

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and trajectories with the kinematic and dynamic constraints of a manipulator or a mobile vehicle, is vast and full of historical references.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

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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