



Advances in Italian Robotics

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Message from the Guest Editors

Dear Colleagues,

Nowadays, robotics is developing at a much faster pace than ever in the past, both inside and outside industrial environments. Service robotics, surgical and rehabilitation robotics, assistive robotics, and other novel application fields are becoming more and more significant, not only from technological and economical viewpoints, but also in terms of their daily life and social implications. Even the implementation and role of robots in production lines and other traditional frames is being widely revised, since robots are rapidly changing from slave devices to cyber-physical systems in the industry 4.0 framework. In this context, research on robot mechanics, modelling, design, and control is going to play an increasingly central role.

Papers are welcome on topics that are related to theory, design, practice, and applications of robots, including, but not limited to the following:

- Robot design and kinematics
- Dynamics of robots and multi-body systems
- Linkages and manipulators
- Control of robotic systems
- Trajectory planning and optimization
- etc.

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Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

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