Advances in Automation and Robotics

Collection Editors:

Prof. Dr. Manuel Armada
Centre for Automation and Robotics (CAR) (CSIC-UPM), Arganda del Rey, Madrid 28500, Spain

Dr. Roemi Fernandez
CSIC-UPM-Centro de Automatica y Robotica (CAR), Madrid, Spain

Message from the Collection Editors

Dear Colleagues,

Despite the great progress made, automation and robotics are still far from reaching their maximum potential. The unstoppable rise of digitalization and automation will redefine manufacturing processes within the framework of Industry 4.0, improving efficiency and competitiveness. However, a great research effort is still required, not only to develop faster, more intelligent, and more autonomous robots, but also to endow these systems with new cognitive skills and with the ability to collaborate, learn, and adapt to complex changing environments and tasks.

Therefore, the objective of this Special Issue is to compile recent advances in robotics and automation. The topics of interest include but are not limited to:

- Modeling, identification and control of robotic systems;
- Intelligent robotics, mechatronics and biomimetics;
- Industrial and collaborative robots;
- Field and service robots;
- Perception for robotics and automation;
- Agile locomotion and dexterous manipulation;
- AI in robotics and automation;
- New applications for robotics and automation.

Please do not hesitate to contact us if you have any doubts regarding your submission.

TopicalCollection

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us