

## Special Issue

# Motion Control for Robots and Automation

### Message from the Guest Editors

Motion control is a critical and challenging field of automation that encompasses the systems involved in the moving parts of machines or robots in a controlled manner. Numerous relevant research studies have been developed in the fields of mechanical engineering, electrical engineering, control theory, and computer science. The design of an optimal controller is essential for systems with complex dynamics, especially in the presence of perturbation. In this Special Issue, we invite researchers to contribute original works and qualified reviews related to motion control for automatic machines and robots, such as medical robots, industrial robots, service robots, mobile robots, bionic robots, micro/nanorobots, CNC machines, multirobot cooperation, cranes, and so on. The scope of this Special Issue includes, but is not limited to, the following: kinematic and dynamic modeling, artificial intelligence, trajectory planning, advanced control, sensors and actuators. Both theoretical and experimental studies are welcome.

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### Guest Editors

Dr. Yi Fang

Dr. Yuxin Sun

Dr. Dongfang Liu

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### Deadline for manuscript submissions

closed (28 February 2026)



## Applied Sciences

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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