

Special Issue

Advanced Precision Motion Control for Actuator Systems

Message from the Guest Editors

Precision actuators and the corresponding advanced motion control algorithms are indispensable in various fields such as industry, healthcare, and aerospace. With the development of actuator forms and emerging technologies like artificial intelligence, many advanced control theories and techniques have emerged in recent years. Therefore, this Special Issue will gather original research and review articles on the latest advancements, technologies, solutions, applications, and challenges in advanced precision motion control and actuators. Potential topics include but are not limited to the following:

- Special actuator design;
- Advanced control theories;
- Precision robotic systems;
- Actuation system sensing and control;
- Feedforward control methods;
- Feedback control methods;
- Novel actuation principles;
- Multi-axis control methods;
- Data-driven control;
- Precision measurement methods;
- Trajectory planning and control;
- Intelligent control methods.

Guest Editors

Dr. Ze Wang

Dr. Min Li

Dr. Jiuru Lu

Deadline for manuscript submissions

closed (15 April 2025)



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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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