

## Special Issue

# Cutting-Edge Technologies and Applications in Automatic Control Systems

### Message from the Guest Editor

This Special Issue aims to explore the latest advancements and practical applications of state-of-the-art technologies in the field of automatic control systems. The continuous evolution of technology has paved the way for innovative approaches and methodologies, revolutionizing the design and implementation of control systems across various industries. The objective of this Special Issue is to provide a platform for researchers, engineers, and industry experts to exchange their knowledge, experiences, and insights on the cutting-edge technologies that are shaping the future of automatic control systems. This publication will serve as a valuable resource for both academia and industry professionals seeking to stay updated with the latest developments and leverage these technologies to enhance system performance, efficiency, and reliability. We welcome contributions in the following areas:

- Artificial intelligence and machine learning in control systems
- Adaptive and self-learning control systems
- Robotics and autonomous control
- Industrial automation and process optimization
- Intelligent transportation systems and autonomous vehicles

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### Guest Editor

Dr. Jan Gorecki

Faculty of Mechanical Engineering, Institute of Machine Design, Poznan University of Technology, 60-965 Poznań, Poland

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### Deadline for manuscript submissions

closed (30 April 2025)



## Machines

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## About the Journal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
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