# Technological Breakthroughs in Automation and Robotics

Guest Editors:

**Prof. Dr. Tugui Alexandru**
Faculty of Economics and Business Administration, "Alexandru Ioan Cuza" University of Iasi, 7000506 Iaşi, Romania

**Prof. Dr. Dana Danciulescu**
Department of Informatics, Faculty of Science, University of Craiova, 200585 Craiova, Romania

**Dr. Carlos Viegas**
Department of Mechanical Engineering, University of Coimbra, 3030 Coimbra, Portugal

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## Message from the Guest Editors

Automation and robotics have seen unprecedented advancements in recent years, driven by technological breakthroughs and innovative applications. These advancements are transforming industries, enhancing efficiency, precision, and productivity across various sectors. Automation systems and robotic technologies are now integral components in manufacturing, healthcare, logistics, agriculture, and beyond. As we progress, the convergence of artificial intelligence, machine learning, and advanced sensor technologies is paving the way for even more sophisticated and autonomous systems. This Special Issue captures the latest advances and prospects in automation and robotics, providing a comprehensive overview of cutting-edge research, technological innovations, and emerging applications.

We invite submissions of original research articles, review papers, and case studies that cover a wide range of topics related to automation and robotics. Potential topics include, but are not limited to, the following:

Innovations in Automation

Robotics Technology Advances

Emerging Applications

Industry 4.0 and 5.0

Future Prospects and Challenges

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Special Issue

## 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.

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