

## Special Issue

# Modeling, Sensor Fusion and Control Techniques in Applied Robotics, 2nd Edition

### Message from the Guest Editors

This Special Issue focuses on novel techniques for enhancing the closed-loop performance of modern robot systems (e.g., mobile robots, UAVs, manipulators). It invites contributions on the development of intelligent, robust, and energy-efficient control solutions. Topics of interest include:

- \* Optimized mechanical structures and vibration-diagnostic designs for improved motion control.
- \* Advanced robot modeling, simulation, and model validation techniques.
- \* Sensor fusion algorithms, state estimation methods, and novel measurement solutions.
- \* Energy-efficient and robust control strategies that handle system uncertainties.
- \* Efficient image processing for motion planning and trajectory tracking.
- \* Applied industrial intelligent robotic solutions (e.g., AI, IoT, Industry 4.0) in fields like agriculture, medicine, and construction.

Both research and review papers on these topics are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 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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