

Special Issue

Advances in Bioinspired Robotics: Mechanisms Design, Intelligent Control and Applications

Message from the Guest Editors

This Special Issue aims to present recent advances in bioinspired engineering and robotic systems, with a particular focus on the integration of biological inspiration, mechanical design, intelligent control, and computational algorithms. The topic closely aligns with the scope of *Machines*, especially in areas related to robotic mechanisms, intelligent machinery, advanced control strategies, and interdisciplinary machine systems. The goal of this Special Issue is to provide a platform for researchers and engineers to share novel designs, theoretical developments, and practical applications in bioinspired robotics and intelligent machines. Original research articles and comprehensive reviews are welcome. Research areas may include, but are not limited to

- bioinspired robotic mechanisms and locomotion,
- Embodied intelligence in robotic systems
- Advanced robot control methods
- Robot perception and learning algorithms
- Soft robotics
- Bioinspired fluid and actuation systems
- Applications of intelligent robotic systems in complex environments.

Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).