

# Special Issue

## Technology Convergence Leading to Breakthroughs in Machines and Systems

### Message from the Guest Editor

This Special Issue, aligned with the theme of TechConverge 2026, focuses on the transformative power of cross-disciplinary synergy. As the boundaries between discrete fields blur, the objective of this collection is to explore how Technology Convergence acts as a catalyst for next-generation machines and systems. We invite high-quality research that demonstrates how the fusion of artificial intelligence, robotics, quantum technologies, and advanced materials is redefining the architecture and capability of modern systems. We particularly welcome manuscripts that address the following:

- Intelligent Machines: Integration of AI and computer vision in autonomous robotics.
- System Innovation: Convergence of embedded systems and healthcare technology for smart medical devices.
- Next-Gen Manufacturing: The impact of quantum technologies and advanced materials on intelligent production systems.

By showcasing theoretical advances and innovative applications, this Special Issue aims to provide a definitive roadmap for the evolution of integrated, intelligent, and resilient systems that will shape our technological future.

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### Guest Editor

Dr. Eng Hock Francis Tay

Department of Mechanical Engineering, National University of Singapore, 9 Engineering Drive 1, Singapore 117575, Singapore

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### Deadline for manuscript submissions

31 December 2026



## Machines

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*Machines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[machines@mdpi.com](mailto:machines@mdpi.com)

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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  
CISE–Electromechatronic Systems Research Centre, University of  
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
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#### Rapid Publication:

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).