Special Issue

Adaptive Human–Machine Networks

Message from the Guest Editor

This Special Issue of *Machines* invites original research and review articles addressing the design, modeling, implementation, and evaluation of adaptive human–machine networks (A-HMNs) across domains such as infrastructure, transportation, healthcare, education, disaster response, and manufacturing. Topics of interest include the following:

- System-level modeling (e.g., agent-based, state–space, and network–theoretic);
- Multi-agent coordination and decentralized decision-making;
- Human-in-the-loop learning and hybrid feedback architectures;
- Human–human, human–machine, and machine–machine interfaces in large-scale human–machine networks;
- Emergent behavior and self-organization in human–machine networks;
- Networked sensing, cognition, and actuation;
- Real-world applications and case studies;
- Metrics for resilience, adaptability, explainability, fairness, and inclusivity.

Through this Special Issue, we aim to advance the understanding of how adaptive human–machine networks can be designed to operate responsibly, robustly, and intelligently in complex real-world environments.

Guest Editor

Dr. Jiangbo Yu

Department of Civil Engineering, McGill University, Montreal, QC H3A 0C3, Canada

Deadline for manuscript submissions

31 January 2026

Machines

MDPI

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.

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

Author Benefits

High Visibility:
indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:
JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).