

Special Issue

Advances in AI-Powered Human-Machine-Augmented Intelligence

Message from the Guest Editors

Dear colleagues, The rapid advancement of artificial intelligence (AI) technologies has revolutionized the interaction between humans and AI-driven machines, particularly at the higher levels of intelligence such as autonomy, control, and decision making. To address these transformative developments, this Special Issue aims to serve as an international forum for academics, engineers, and researchers to present their latest theoretical or applied works in the emerging field of AI-powered human-machine-augmented intelligence. We invite submissions of innovative research that explores, but is not limited to, the following themes:

- Human and Machine Autonomy: Mechanisms and frameworks for autonomous decision making in collaborative systems.
- Human-Machine Mutual Trust: Strategies to establish and maintain trust in human-AI interactions.
- Traded- and Shared-Control Methodologies: Novel approaches to dynamic control allocation between humans and machines.
- Applications in Real-World Systems: Practical implementations of human-machine intelligence across domains such as healthcare, infrastructure, or industrial automation.

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Deadline for manuscript submissions

30 April 2026



Machines

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Impact Factor 2.5
CiteScore 4.7



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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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