

Special Issue

Machine Learning Applications for Sustainable Infrastructure and Hydrological Modeling

Message from the Guest Editors

This Special Issue will focus on the application of machine learning techniques to further advance sustainable infrastructure and hydrological systems. Topics will include predictive modeling of material performance (such as concrete compressive strength), AI-driven optimization of structural and environmental systems, hydrological forecasting and flood risk assessment, and intelligent monitoring for infrastructure diagnostics. We particularly welcome contributions that integrate explainable AI (XAI) approaches aimed at enhancing transparency and trust in engineering decision-making, as well as interdisciplinary studies focusing on the ethical and societal implications of deploying machine learning in critical infrastructure. The aim of this Special Issue is to provide a platform where researchers and practitioners in the field can publish methodological advances, reproducible tools, and case studies that demonstrate transformative opportunities for machine learning in civil and environmental engineering.

Guest Editors

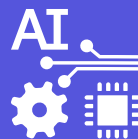
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Deadline for manuscript submissions

12 March 2027



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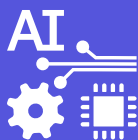
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About the Journal

Message from the Editor-in-Chief

Welcome to *AI for Engineering*, a pioneering international journal dedicated to the convergence of artificial intelligence and engineering disciplines. We bridge the critical gap between rapid AI advancements and practical engineering applications across civil, mechanical, electrical, and chemical fields. Our platform champions innovative research in intelligent design, manufacturing, optimization, and system control, while also prioritizing crucial discussions on ethics, trustworthiness, and sustainable development. Committed to academic rigor and innovative research, we provide a dynamic forum for groundbreaking work that transforms engineering into a precision-driven, efficiency-focused, intelligence-empowered discipline.

Editor-in-Chief

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Author Benefits

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first decisions in 18 days; acceptance to publication in 7 days (median values for MDPI journals in the first half of 2026).

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APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.