

Special Issue

AI-Driven Engineering Optimization

Message from the Guest Editors

This Special Issue invites researchers, practitioners and engineers to share work at the intersection of AI, machine learning and engineering optimization to explore cutting-edge advancements, practical applications and future directions in AI-driven optimization across engineering domains, topics of interest include but not limited to:

- AI/ML techniques for engineering optimization
 - AI techniques: Neural networks, machine learning.
 - Evolutionary computation: including genetic algorithms, particle swarm optimization, ant colony optimization and differential evolution etc.
 - Hybrid models combining AI with traditional numerical methods.
 - Generative /Multimodal optimization: explore new solutions.
 - Design automation.
 - Data-driven optimization.
- Applications across Engineering Disciplines
 - Aerospace, automotives, civil, mechanical, chemical and energy systems etc.
 - Real-time optimization for robotics and smart engineering design.
 - Large scale engineering optimization.
 - AI applications in engineering optimization.

Guest Editors

Dr. Jian-Ping Li
Dr. Mudhar Al-Obaidi
Dr. Qingsheng Li

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Algorithms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
algorithms@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner

Faculty of Mathematics, Otto-von-Guericke-University Magdeburg, P.O.
Box 4120, D-39016 Magdeburg, Germany

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