

Special Issue

Evolutionary Machine Learning for Real-World Applications

Message from the Guest Editor

This Special Issue explores the integration of evolutionary computation (EC) and machine learning (ML) to enhance performance, scalability, and adaptability in addressing complex real-world problems. EC methods show significant promise in optimizing various ML aspects, including hyperparameter tuning, model selection, and feature engineering. While ML has achieved notable success in areas such as computer vision, natural language processing, biomedical analysis, and autonomous systems, conventional methods often struggle with large-scale, dynamic, and noisy data. EC offers adaptive, self-optimizing, and robust learning strategies capable of efficiently navigating complex search spaces. We seek submissions investigating both theoretical advancements and practical applications at the EC-ML intersection. Topics include novel algorithms, hybrid approaches, and innovative EC-driven ML applications across diverse fields. We welcome original research, comparative studies, and real-world case studies demonstrating how EC enhances ML solutions. We look forward to your contributions in advancing this exciting field through this Special Issue.

Guest Editor

Dr. Azam Asilian Bidgoli

Faculty of Science, Wilfrid Laurier University, Waterloo, ON, Canada

Deadline for manuscript submissions

10 November 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/231893

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

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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