Special Issue

Machine Learning and Evolutionary Algorithms: Theory and Applications

Message from the Guest Editor

The Special Issue on "Machine Learning and Evolutionary Algorithms: Theory and Applications" aims to highlight the latest advancements in the field of machine learning and its interaction with evolutionary algorithms. Machine learning is a branch of artificial intelligence where computers learn to perform tasks without explicit programming. Evolutionary algorithms are commonly employed in optimization, search, and decision-making problems where traditional mathematical programming methods are impractical or inefficient. Their versatility and ability to handle complex, multi-dimensional, and non-linear problems make them valuable in diverse real-world applications. Overall, developing new evolutionary algorithms assisted by machine learning strategies, using evolutionary algorithms to optimize machine learning models, exploring the combination of evolutionary algorithms with deep learning or reinforcement learning methods, and expanding the possibilities for innovative applications in artificial intelligence will all be of interest to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2025)

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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.

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