

Special Issue

Evolutionary Algorithms, Optimization, and Data Mining with Applications

Message from the Guest Editor

Evolutionary algorithms play a vital role in solving big data-related problems of modern complex systems. This Special Issue focuses on recent research on novel mathematical solutions proposed for the Evolutionary Algorithms in the data mining domain. Research about the correlation among the optimization, EAs and data mining is highly recommended for this Special Issue. The highlighted topics include, but are not limited to, the following domains: the application of Evolutionary Algorithms for data mining problems; the optimization of Evolutionary algorithms; general schema theory study for Evolutionary Algorithms; the building block concept in the Genetic Algorithm, Genetic Programming and Gene Expression Programming; the integration of large language models (LLMs); automated parameter tuning; the reliability and performance evaluation of LLMs; the schema/building block study in Differential Evolution; the evaluation of the evolution process in Hybrid Algorithms (the memetic algorithms combine the global search of EAs with local search methods).

Guest Editor

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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.

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