

Special Issue

Optimization Methods in Engineering Applications

Message from the Guest Editor

Mathematical modeling and analytical methods play a pivotal role in understanding complex systems across science and engineering. With the rapid development of computational techniques and data-driven approaches, there is an increasing demand for robust mathematical frameworks that can bridge theoretical foundations with real-world applications. This Special Issue aims to bring together recent advances in applied mathematics, optimization theory, numerical analysis, and data-driven mathematical methods. We particularly welcome contributions that develop novel mathematical models, propose rigorous analytical techniques, or demonstrate the application of mathematical theories in interdisciplinary domains such as engineering systems, artificial intelligence, and complex networks. Topics of interest include, but are not limited to, optimization methods, stochastic modeling, dynamical systems, computational mathematics, and mathematical aspects of machine learning. We invite researchers to submit original research articles and reviews that contribute to the advancement of mathematical theory and its applications.

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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