

# Special Issue

## Computational Optimization and Operations Research: Theory and Applications

### Message from the Guest Editors

Computational optimization and operations research are dynamic fields that feature exciting advancements which are shaping the future of related fields, with applications across industries. Some recent developments and advanced topics include machine learning and AI integration, quantum computing, graph theory and network analysis, numerical methods for big data, healthcare operations and sustainability, and energy optimization. Many mathematical prediction models using sophisticated optimization and computational techniques have also been developed in other related fields including public health and government administration, especially for the modeling of strategic decision making and supply chain analytics. I invite you to submit your latest research to this Special Issue. Papers exploiting new developments in optimization and applied mathematics, particularly in computational optimization or operations research, are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

30 September 2026



## Mathematics

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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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### Editor-in-Chief

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