

# Special Issue

## Multiobjective Optimization: Methodology, Computational Implementation and Real Models

### Message from the Guest Editors

A lot of real-world optimization problems are about maximizing or minimizing various objective functions which are often in conflict with each other.

Multiobjective optimization (MOP) is the discipline that tries to find solutions, called Pareto optimal or efficient, to this type of problems. Indeed, multiobjective optimization enables the decision-making task inherent to the process for finding a suitable final solution. Furthermore, computational developments and software become essential to implement the application in practice of new theory and methodology. In this special issue, we invite papers with a significant amount of new scientific contribution in theory, computation, and practical applications that address new trends in multiobjective optimization, and the relationships among existing approaches. Topics of interest include (but are not limited) to:

- Theoretical aspects in MOP
- Interactive MOP methods
- Combinatorial MOP
- Stochastic MOP
- Dynamic MOP
- Decomposition-based EMO approaches
- Interactive and preference-based EMO algorithms
- Multiple criteria decision making
- Applications with real data
- Software implementation

### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2024)



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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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### Editor-in-Chief

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