



Special Issue on Mathematical Modeling and Optimization

Call for Papers

Mathematical Modeling and Optimization is an interdisciplinary academic field that develops mathematical representations of real-world systems and applies analytical and computational methods to identify optimal solutions under given constraints. It encompasses areas such as optimization theory, operations research, control systems, simulation and numerical analysis. The field supports decision-making and problem-solving across engineering, economics, management, healthcare and the natural sciences by improving efficiency, performance, and resource allocation.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on **Mathematical Modeling and Optimization**. Potential topics include, but are not limited to:

- Optimization theory and algorithms
- Computational optimization
- Combinatorial optimization
- Evolutionary and genetic algorithms
- Dynamic systems and optimal control
- Numerical methods and scientific computing
- Optimal design and optimization algorithms
- Operations research and decision analysis
- Stochastic modeling and uncertainty analysis
- Linear and nonlinear programming
- Dynamic systems modeling
- Numerical optimization methods
- Multi-objective optimization
- Integer programming
- Optimal control of partial differential equations
- Topology optimization
- Game theory and equilibrium problems
- Simulation and computational modeling
- Network optimization and graph theory
- Machine learning and intelligent optimization
- Mathematical modeling in engineering and physical sciences
- Mathematical modeling in economics, finance and management

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – *Mathematical Modeling and Optimization***” should be chosen during your submission.

According to the following timetable:

Submission Deadline	October 22nd, 2026
Publication Date	December 2026

For publishing inquiries, please feel free to contact the Editorial Assistant at submission.entrance1@scirp.org

APM Editorial Office