Special Issue on

Mathematical Modeling, Optimization and Optimal Control

Call for Papers

"Mathematical Modeling, Optimization and Optimal Control" encompasses the formulation of mathematical representations of real-world systems, the development of methods to find the best solutions to problems within these models, and the design of control strategies for achieving desired outcomes. This interdisciplinary field applies rigorous mathematical techniques to solve complex problems in engineering, economics, biology, and beyond, aiming to predict system behaviors, improve performance, and make informed decisions under constraints.

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

- Linear and nonlinear programming
- Dynamic systems and differential equations
- Stochastic optimization and control
- Combinatorial optimization
- Integer programming
- Game theory and strategic decision making
- Optimal control theory
- Robust control
- Machine learning for control
- Evolutionary and genetic algorithms
- Multi-objective optimization
- Simulation-based optimization
- Dynamic optimization and control
- Topology optimization and optimal control
- Control and complex systems

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, Optimization and Optimal Control*" should be chosen during your submission.

According to the following timetable:

Submission Deadline	June 19th, 2024
Publication Date	August 2024

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

APM Editorial Office
apm@scirp.org