



Special Issue on Optimization: Algorithms and Applications

Call for Papers

In mathematics, computer science and operations research, mathematical optimization is the selection of a best element from some set of available alternatives. In the simplest case, an optimization problem consists of maximizing or minimizing a real function by systematically choosing input values from within an allowed set and computing the value of the function. The generalization of optimization theory and techniques to other formulations constitutes a large area of applied mathematics. More generally, optimization includes finding "best available" values of some objective function given a defined domain (or input), including a variety of different types of objective functions and different types of domains.

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

- Optimization models and solution methods
- Combinatorial optimization and mathematical programming
- Computational optimization techniques
- Multi-objective optimization
- Dynamic optimization
- Discrete optimization
- Topology optimization
- Linear and nonlinear optimization
- Stochastic scheduling
- Routing and transportation
- Optimal control and optimization
- Optimization for machine learning
- Ant colony optimization
- Optimization algorithms and engineering
- Optimization algorithms in physics
- Quantum computing & optimization
- Optimization models in mathematical economics

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 – Optimization: Algorithms and Applications**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	May 19th, 2022
Publication Date	July 2022

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

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