



Combinatorial Optimization and Applications

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Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Mathematics* is devoted to the new challenges that real combinatorial optimization problems impose on us today in a wide variety of fields of application. Indeed, from logistics to healthcare, and from services to manufacturing, today's decision-making problems require us to consider large models of these NP-hard problems, both in terms of the number of variables and constraints. For this reason, increasingly efficient models and heuristic methods capable of obtaining good solutions in increasingly shorter calculation times are required, in addition to the need to minimize calculation times in order to reduce energy consumption.

Therefore, we welcome articles on new models, heuristic algorithms and successful case studies that can contribute to the development and application of these new proposals in the real world.





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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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