Mathematical Optimization and Decision Making

Guest Editor:

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Message from the Guest Editor

Dear Colleague,

Mathematical optimization and decision making is a rapidly growing field of research that aims to develop novel mathematical models, algorithms, computational methods, as well as analysis frameworks to support decision-making processes prevalent in many application areas. On the mathematical optimization side, this topic covers a wide range of optimization techniques, both classical and heuristic, for linear, nonlinear, convex, stochastic, and combinatorial optimization problems. On the decision-making side, it covers areas such as decision trees, game theory, and multi-criteria decision analysis as well as various non-classical decision-making methods, including quantum-inspired methods. The main objective of this research field is to improve the efficiency, effectiveness, and quality of decision-making processes encountered in complex systems such as transportation, energy, manufacturing, healthcare, finance, and engineering.

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Special Issue

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Message from the Editor-in-Chief

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