Special Issue

Mathematical Optimization and Control: Methods and Applications, 2nd Edition

Message from the Guest Editor

Mathematical optimization is the discipline of adjusting a mathematical process to optimize (make the best use of) a specified set of parameters without violating certain constraints. The most common goals are minimizing cost and maximizing efficiency. Mathematical optimization utilizes optimization algorithms to explore the maximization or minimization of functions while adhering to specific constraints. It highlights the need for research on optimization algorithms. Mathematical control compares the value of a variable being controlled with the desired value, and applies the control signal to bring the variable to a desired value. The most common goals are regulation, trajectory tracking, stabilization, synchronization, nonlinear compensation, obstacle avoidance, or disturbance rejection. It highlights the need for research on control algorithms. This Special Issue, as a follow-up of the previous edition, the objective of this Special Issue of Mathematics is to cover the optimization and control algorithms.

Guest Editor

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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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