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Systems Modeling, Analysis and Optimization

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Message from the Guest Editors

Dear Colleagues,

Large-scale complex systems widely arise in real applications such as queueing systems, electric power grids, air and road traffic control systems, communication networks, manufacturing plants, supply chains, social networks, etc. With the increasing demand from stakeholders and the rapid development of information technologies and big data in recent years, there has been significant advancement in both the scale and complexity of the systems practitioners have to deal with. This creates challenges for describing and studying these systems, and in the meantime brings opportunities for the development of new modeling, analysis, control, and optimization techniques for them.

The aim of this Special Issue is to publish new theories, methods, algorithms, and applications in systems modeling, analysis, and optimization. The potential topics of interest are broad, and include but are not limited to simulation modeling, discrete event dynamic systems, Markov decision processes, reinforcement learning, optimization methods, social networks, metaheuristic algorithms, computation of equilibria in game theory, etc.







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Message from the Editor-in-Chief

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