Special Issue

Modeling, Control, and Optimization for Transportation Systems

Message from the Guest Editor

I am pleased to announce this Special Issue of the journal *Mathematics* entitled "Modeling, Control, and Optimization for Transportation Systems". This Special Issue invites high-quality original research or review papers on the development and application of mathematical models, algorithms, and control strategies to improve the efficiency, safety, and sustainability of transportation networks. The main topics of this Special Issue include but are not limited to: (1) Modeling traffic flow, vehicle behavior, and infrastructure for guiding decisions on how to handle congestion, road closures, or accidents, (2) Control strategies that focus on regulating and managing transportation systems in real-time including optimizing traffic signal timings, controlling traffic flow, vehicle coordination, and managing vehicle routing to prevent congestion, and (3) optimization techniques, such as linear programming, network optimization, and evolutionary algorithms are applied to minimize costs, reduce travel time, and improve environmental impacts, etc.

Guest Editor

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About the Journal

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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