Advances in Operations Research

Special Issue on
Modeling, Simulation, and Optimization of Traffic flow

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CALL FOR PAPERS

Traffic congestion prevails in many metropolitan areas all around the world and poses a substantial threat to the economy and to the quality of life of millions of people worldwide. A range of challenging problems like optimization of traffic flow on a network, traffic flow management, control, and others exist and need to be efficiently and effectively addressed. The field of transportation is continually undergoing change driven by new technologies, economic realities, and societal preferences. Despite relentless efforts by the scientists in the last few decades, the research in the field of transport/ traffic is still thriving. The increasing computing capabilities and data availability have advanced the modeling, simulation, and optimization of complex systems such as dynamic transportation networks.

On the grounds of the common interest of a large body of scientific community, we wish to provide a common platform in the form of this special issue with participation awaited from researchers all across the globe. With an aim to foster cooperation across the interdisciplinary science and engineering fields, articles with high-quality, novel, and unpublished work, covering all the fundamental and methodological aspects of theoretical as well as experimental studies, are anticipated. Our ambition is to facilitate the exchanges between various fields dealing with transport, ranging from molecules to vehicles.

Potential topics include, but are not limited to:

- ▶ Optimization of traffic flow
- ▶ Traffic flow models
- ▶ Pedestrian and evacuation dynamics
- ▶ Network traffic: vehicular traffic, Internet traffic, and others
- ▶ Intelligent transport systems (ITS)
- ▶ Granular flow
- ▶ Mobility in social networks
- ▶ Heuristic optimization
- ▶ Nonequilibrium collective transport in biological systems: molecular motors and ant trails

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Manuscript Due
Friday, 7 October 2016

First Round of Reviews
Friday, 30 December 2016

Publication Date
Friday, 24 February 2017