

Special Issue

Nonlinear Systems and Models for Intelligent Transportation and Communication

Message from the Guest Editor

Recent developments in science and technology call for advanced instruments for robust systems engineering and/or analysis, especially regarding modeling, simulation, control/optimization, forecasting, and communication under particularly difficult system-theoretical challenges as well as complex practical constraints and requirements. This is particularly challenging whenever one has to cope with intricately complex systems. In this Special Issue, we invite submissions exploring the development of methods, concepts, and algorithms for analyzing traffic flow in transportation and communication engineering. The main focus is on modeling, simulation, control/optimization, forecasting, and communication. Contributions can focus on mathematical methods, numerical simulations, analog computing, MOSFET technology, oscillatory theory, synchronization and self-organization, stability and bifurcation analysis, chaos theory, sensors, hardware, algorithms, graph theory, or integrated monitoring and prediction systems for communication. Survey papers and reviews are also welcome. Guest editor

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2025)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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