

Special Issue

Modeling of Processes in Transport Systems

Message from the Guest Editors

Mathematical modeling plays a crucial role in understanding, analyzing, and optimizing processes within transport systems. As the transport sector faces increasing demands for safety, efficiency, resilience, and sustainability, the application of advanced mathematical tools is becoming increasingly important. Transport systems are inherently complex and often operate under dynamic, uncertain, or multi-variable conditions, making them ideal candidates for rigorous modeling approaches. This Special Issue aims to bring together high-quality contributions that demonstrate the development and application of mathematical models and simulations in the field of transport systems. Topics of interest include, but are not limited to, the following: mathematical and geometric modeling; traffic flow and safety analyses; transport network optimization; data-driven decision-making; and the use of soft computing techniques such as fuzzy logic, machine learning, neural networks, or hybrid algorithms. Both theoretical advancements and practical implementations are welcome, with an emphasis on interdisciplinary approaches that bridge mathematics and engineering practice.

Guest Editors

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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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