

# Special Issue

## Advances in Optimal Transport: Algorithms, Theory, and Intelligent System Applications

### Message from the Guest Editors

Optimal transport (OT) theory has emerged as a transformative framework for modeling resource allocation, distribution networks, and decision-making under constraints. With rapid advances in computational methods and data-driven applications, novel algorithms are urgently needed to address high-dimensional, dynamic, and game-theoretic challenges in modern systems. This Special Issue seeks cutting-edge contributions that bridge theoretical innovations in OT with practical applications in intelligent transportation, emergency management, networked control, and complex systems. We welcome submissions exploring both computational breakthroughs (e.g., entropy-regularized solvers, deep learning-based approximations, evolutionary metaheuristics) and domain-specific applications (e.g., crowd evacuation dynamics, multi-agent route optimization, spatially distributed resource allocation). Of particular interest are interdisciplinary studies integrating OT with evolutionary game theory for modeling competitive/cooperative behaviors, neural operators for high-dimensional OT mappings, or networked control strategies for large-scale infrastructure systems.

### Guest Editors

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### Deadline for manuscript submissions

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# Mathematics

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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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### Editor-in-Chief

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