

Special Issue

Paradigm Shifts in Transport Planning: From Four-Step Models to Agent-Based Simulation

Message from the Guest Editors

This Special Issue focuses on this critical paradigm shift in transport planning. We seek high-quality papers on topics including, but not limited to, the following:

- **Methodological transitions:** Frameworks and challenges in shifting from aggregate models to disaggregate simulations.
- **Behavioral modeling:** Integration of discrete choice models to analyze passenger travel behavior, including responses to differentiated fare policies and dynamic pricing.
- **Public transit operations:** Agent-based simulation of urban public transit networks and multi-modal system integration.
- **Network resilience:** Simulating the impact of disruptions, including extreme weather events, on passenger flow and transit network reliability using micro-simulation.
- **Comparative analysis:** Cross-regional or international comparative studies of transit systems and passenger mobility patterns utilizing agent-based approaches.
- **Data-driven calibration:** Utilizing emerging data sources to calibrate, validate, and scale agent-based transport models.
- **Policy evaluation:** Assessing the long-term impacts of sustainable transport planning, infrastructure investments, and modern mobility services through agent-based scenarios.

Guest Editors

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Deadline for manuscript submissions

20 April 2027



Future Transportation

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Impact Factor 1.7
CiteScore 3.8



mdpi.com/si/278277

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About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or a comprehensive review article for publication in *Future Transportation*, an international, open access, and peer-reviewed journal that provides an advanced forum for research findings in areas related to the technologies, sustainability, and emerging trends in transportation. *Future Transportation* publishes original research articles, review articles, and communications. I am confident that you will find the journal to be a premier outlet for research fueling the revolution involving electrification, autonomous driving, micro-mobility, and other novel as well shared transportation modes, in addition to the digital infrastructure supporting these aspects.

Editor-in-Chief

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