Special Issue

Public Transit-Oriented Urban Areas—Planning, Coordination, and Optimization of Transportation Networks

Message from the Guest Editor

This Special Issue delves into the planning, coordination, and optimization of transportation networks within TOD frameworks, highlighting the role they can play in enhancing urban mobility and quality of life. Effective TOD planning requires the strategic design of transit trajectories, frequencies, and infrastructure based on urban forms and travel demand.

It also calls for seamless coordination across diverse modes—including rail, buses, cycling, and emerging solutions like shared autonomous mobility—to ensure efficient transfers and equitable access. Optimization efforts leverage advanced tools such as genetic algorithms, smart city technologies, and data analytics to minimize travel time, maximize passenger flow, and integrate sustainability goals.

Moreover, institutional coordination and participatory governance are essential to align transportation systems with land-use policies and community needs.

Guest Editor

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