

Special Issue

Navigating Uncertainty: Advanced Risk Assessment and Resilience in Maritime Transportation Systems

Message from the Guest Editors

Leveraging the growing synergy between maritime big data and advanced computational methodologies, this Special Issue focuses on the next generation of risk modeling and resilience enhancement decision-support tools for maritime transportation systems. The rapid expansion of maritime datasets, including Automatic Identification System (AIS) data, accident databases, satellite observations, environmental data, and global trade statistics, is creating new opportunities to better understand the mechanisms driving maritime risks and system disruptions. Combined with modern analytical techniques, these datasets enable researchers to develop more robust and predictive risk assessment frameworks that can support proactive and evidence-based maritime governance and resilience enhancement. To enhance thematic cohesion, this Special Issue particularly encourages submissions grounded in well-defined application contexts, such as specific shipping corridors, port clusters, global or regional trade systems, and policy-oriented case studies, enabling more targeted and comparable insights across contributions.

Guest Editors

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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.

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