Special Issue

The Resilience of Railway Networks: Enhancing Safety and Robustness

Message from the Guest Editors

With the expansion of global transportation networks and the demand for reliable, efficient, and safe transit systems, enhancing the resilience of railway networks has become a key focus. Railway systems face complex challenges from operational, environmental, and technological perspectives. Modern advancements in artificial intelligence, data analytics, IoT, and sensor integration offer significant potential to transform railway resilience. This Special Issue aims to consolidate cutting-edge research, innovative methodologies, and real-world case studies that strengthen the resilience of railway networks. We invite researchers, industry professionals, and practitioners to submit original research papers and review articles that contribute to the design, implementation, and optimization of robust railway networks capable of withstanding operational, environmental, and technological disruptions. The focus includes resilience across various aspects of railway networks, from infrastructure to rolling stock, power systems, and operational processes.

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