



Sustainable and Trustworthy Operation and Maintenance of Railway Systems

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Message from the Guest Editors

With the advent of the 4th Industrial revolution and boarding of the digital train by the railway sector, the implementation of artificial intelligence (AI)-based solutions in railway business has become an important part of strategic thinking of senior railway managers. However, developing and implementing AI-based solutions for enhanced analytics in railway contexts is challenging and requires a good domain understanding and insight in a range of disciplines, such as computer science, system engineering, software engineering, control engineering...

To strengthen the railway industry's capability to develop AI-based solutions and boost the implementation of AI tools, we believe that there is a need for fundamental and applied research to study, explore, investigate, and develop frameworks, approaches, technologies, and methodologies that enable operational excellence in the railway though improved fact-based decision making using enhanced analytics empowered by digitalization and AI technologies.

This Special Issue of Sustainability is seeking research findings that focus on the utilization of digitalization and AI technologies that enable sustainable railway development.





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Message from the Editor-in-Chief

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