



Intelligent Systems for Railway Infrastructure

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Deadline for manuscript
submissions:

closed (20 August 2023)

Message from the Guest Editors

This Special Issue invites the submission of innovative research, reviews, case studies, and successful applications of solutions that aim to contribute toward intelligent systems for railway infrastructure. Theoretical, experimental, and computational investigations (or a combination of these) are welcome.

Papers should cover various topics related (but not limited) to structural integrity, sustainable rolling stock, vehicle dynamics, sustainability in the construction of railway infrastructure, structural condition assessment, digital twins, model calibration and validation, suspension parameter optimization, running stability, ride quality, wheel–rail dynamics, modal analysis, noise control and active control, structural health monitoring, new sensors and technologies (photogrammetry, laser scanning, drones, wireless), computer vision techniques, automated damage identification, remote inspection strategies, bridge information modelling, big data, artificial intelligence, augmented reality, virtual reality, disaster risk reduction, and the optimal use of rolling stock and energy to increase the efficiency and competitiveness of passenger and freight transport.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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