

Special Issue

Sustainable Railway Infrastructure and Rolling Stock

Message from the Guest Editors

In recent years, important investments have been made in the construction of new railway infrastructures, as well as in the rehabilitation and upgrading of existing lines. Many of these lines include a significant number of critical infrastructure elements, such as bridges, viaducts, and embankments, whose operational and safety conditions have to be preserved by infrastructure managers during their life cycle. Recent scientific and technological advancements have enabled the more efficient structural condition assessment of railway infrastructures, mainly through the implementation of intelligent strategies for inspection, monitoring, maintenance, and risk management. Moreover, the investment in the development of faster and lighter trains also poses important challenges in terms of the energy efficiency of this type of vehicle. Hence, within the framework outlined above, this Special Issue invites the submission of innovative research, reviews, case studies, and successful applications of solutions that aim to contribute to a more sustainable railway system. Theoretical, experimental, and computational investigations (or a combination of these) are welcome.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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