



Sustainable Operation and Maintenance of Railway Systems

Guest Editor:

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Message from the Guest Editor

From a sustainability perspective, the promotion of public transport is one of the main tools to reduce the negative impacts related to private-car transport (pollution, congestion, accidents, etc.).

In this context, railway systems in all their forms (metro, regional, and high-speed services) represent the backbone for the development of a sustainable mobility model.

Since a user is a rational decision-maker who maximizes their utility, abandoning private transport in favor of public transport may take place if and only if the latter is more efficient and more reliable. Therefore, the development of methodologies and techniques to ensure reliability, availability, maintainability, and safety both in an operational and maintenance context of railway systems is a relevant issue for promoting environmental sustainability today.

In light of the above, this Special Issue calls for reviews and original research articles related to the main aspects concerning, but not limited to, the promotion, analysis, and optimization of railway systems in a sustainable perspective by investigating theoretical, methodological, energetical, operational, implemental, and technological aspects.





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Message from the Editor-in-Chief

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