



Sustainable Operation and Maintenance of Railway Systems

Guest Editor:

Prof. Dr. Luca D’Acierno

Department of Civil, Architectural
and Environmental Engineering,
Federico II University of Naples,
80125 Naples, Italy

Deadline for manuscript
submissions:

closed (10 April 2023)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)