

Special Issue

Sustainability Optimisation of Electrified Railways

Message from the Guest Editors

As the cleanest and greenest high-volume transport, the electric railway has an essential role in creating sustainable lifestyles and economies. The railway sector not only provide fast, comfortable and punctual train service, but also plays an important societal role in ecosystems and biodiversity, both in urban and rural areas. In this context, we are pleased to announce this Special Issue. Possible topics include, but are not limited to:

- Numerical modelling of railway systems;
- Experimental and field tests in railway systems;
- Optimisation of rail electrification system;
- Emerging power supply techniques for electric trains;
- Assessment of railway system service performance;
- Train driving speed optimisation for improving energy efficiency;
- Regenerative braking energy harvest and utilisation of electric trains;
- Timetable scheduling and optimisation of rail networks;
- Intelligent monitoring and maintenance of railway infrastructures;
- On-board monitoring techniques on railway vehicles;
- Magnetic levitation technology;
- New-concept technologies for future railways.

We welcome submissions that describe the state-of-the-art and further stimulate innovations in the field.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2024)



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About the Journal

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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