



an Open Access Journal by MDPI

Vehicle-Track Interaction and Railway Dynamics

Guest Editor:

Prof. Dr. Rong Chen

School of Civil Engineering, Southwest Jiaotong University, Chengdu 610031, China

Deadline for manuscript submissions: **20 October 2024**

Message from the Guest Editor

Railways have always played a significant role in the development of societal wealth creation capabilities. With the continuous improvement of railway train speed and the rapid development of high-speed and heavy-duty railways, the dynamic interaction between locomotives and track structures is increasingly strengthened, leading to more serious and complex dynamic and vibration problems. The higher the running speed of the train is, the more prominent the issues of safety and running the stability of locomotive and vehicle operation on the railway are. Railways have been in a high-load-transportation state for a long time, leading to more prominent vehicle/track interaction problems. This Special Issue is launched in order to showcase the cutting-edge research on the dynamic interaction between railway vehicles and track, and to discuss the difficulties and issues faced in the development of railway dynamics.



mdpi.com/si/201405







an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec,

CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci