



Wear and Rolling Contact Fatigue in Railway Systems

Guest Editors:

Dr. Wei Zhou

School of Traffic &
Transportation Engineering,
Central South University,
Changsha 410075, China

Dr. Congcong Fang

School of Traffic &
Transportation Engineering,
Central South University,
Changsha 410075, China

Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Dear Colleagues,

This is a call for papers for a Special Issue on "Wear and Rolling Contact Fatigue in Railway Systems". This Special Issue will provide a venue for scholars and researchers to share their most recent theoretical and technical successes, as well as a platform on which to highlight key topics and difficulties for future studies in the field. Submitted papers are expected to inspire original ideas and potential contributions to theory and practice. Acceptable research topics include, but are not limited to, the following:

- Material property improvement for achieving better resistance to wear and RCF;
- Monitoring and inspection technologies for the detection of wear and RCF defects;
- Modeling and simulation theories for wear and RCF in railway applications;
- Lubrication and friction management for wear and RCF problems in railways;
- Applications of artificial intelligence, big data, and deep learning in RCF and wear prediction for railway systems.

Dr. Wei Zhou
Dr. Congcong Fang
Guest Editors



mdpi.com/si/187275

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Antonio J. Marques
Cardoso**

CISE—Electromechatronic
Systems Research Centre,
University of Beira Interior,
Calçada Fonte do Lameiro, P -
6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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*, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/machines
machines@mdpi.com
X@Machines_MDPI