

# Special Issue

## High-Speed Railway Systems Technology

### Message from the Guest Editor

High-speed rail is a comfortable, safe, flexible, and environmentally sustainable mode of transport that contributes socioeconomic benefits. This Special Issue aims to show the research progress of high-speed railway and train technology around the world, to improve the exchange of relevant and new methodologies and achievements, and to promote the progress and development of high-speed railway systems. Topics of interest include but are not limited to:

- Innovative technologies for high-speed railway infrastructure;
- Innovative high-speed train technology;
- Wheel-rail contact in high-speed operations;
- Dynamic response of high-speed trains;
- Track dynamics;
- Running safety assessment of high-speed trains;
- Intelligent condition-based monitoring for high-speed trains and tracks;
- Optimal scheduling of maintenance actions.

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### Guest Editor

Dr. Cecília Vale

Transportation Infrastructures Division, Department of Civil Engineering, Faculty of Engineering of University of Porto, Porto, Portugal

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### Deadline for manuscript submissions

closed (20 February 2024)



## Machines

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## About the Journal

### 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.

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### 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

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#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

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