



The International Journal of Railway Technology

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Introduction

The International Journal of Railway Technology (IJRT) is an international journal dedicated to research, development and application in the scope of railway systems. The goal of the journal is to provide an international platform for researchers and experts to promote, disseminate and discuss the recent developments and advances in the field of railway technology. Furthermore, this publication aims to encourage the interaction and collaboration between universities, research centers, railway operators and industry in order to identify problems, propose solutions and indicate directions of future research.

IJRT is published by Saxe-Coburg Publications in print and digital versions. Four issues per annum will be published. The first issue was published in April 2012.

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Aims and Scope

The journal publishes original papers that cover, but are not limited to, the following topics:

Rolling Stock

- Design, manufacture and maintenance
- Modelling and simulation
- High speed trains, light railways and freight capacity
- Performance and optimisation
- Aerodynamics and crosswind
- Noise, vibration and comfort
- Safety, security and reliability
- Ergonomics and interior design

Infrastructure

- Bridges, tunnels and transition zones
- Track design, construction and maintenance
- Interaction of vehicles with the infrastructure and the environment
- Foundations
- Track monitoring
- Trackbeds: sleepers and ties
- Geotechnical aspects: earthworks, embankments, stabilisation
- Technologies for track defects detection

Energy and Environment

- Re-use of kinetic energy
- Energy sources and smart grids
- Hybrid traction and power trains
- Sustainable rail transport

Signalling and communication

- ERTMS - European Rail Traffic Management System
- ITS - Information and Technology Systems

Operations

- Traffic management
- Interoperability
- Intermodal solutions

Strategies and Economics

- Standards and regulations
- Capacity and cost
- Track access charges
- Future trends in railway engineering

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Dr Joao Pombo
IDMEC-IST, Lisbon, Portugal

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Language

All manuscripts must be prepared in English.

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All papers submitted to IJRT are subjected to peer-review.

Authors wishing to submit original research papers in IJRT, should first read the [author guide](#). The submission and review process for IJRT is carried out using the [Civil-Comp Manuscript Manager \(CCMM\)](#) system.



Online

Present and past issues of IJRT can be accessed online through [Computational & Technology Resources](#). All papers are assigned digital object identifiers (DOI).



Order

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