

Special Issue

Current Collection Quality Solutions in Electric Trains

Message from the Guest Editors

With the expansion of rail transit around the world, the study of the current collection quality of electric trains has attracted ever-increasing attention from both the academic and industrial communities. Indeed, it is essential that we enable the faster and more reliable operation of electric trains, contribute to minimising incidents that cause traffic disruptions and reduce the maintenance costs of the rolling stock and infrastructure. In this context, we are pleased to announce this Special, entitled “Current Collection Quality Solution in Electric Trains”. Possible topics include, but are not limited to, the following:

- pantograph–catenary interaction;
- vehicle–grid system;
- current collection quality;
- maintenance of current collection system;
- design and optimisation of the current collection system;
- third shoe rail system;
- contactless power supply in rail transit.

Guest Editors

Dr. Yang Song
Dr. Tengjiao Jiang
Dr. Yongming Yao

Deadline for manuscript submissions

closed (31 January 2024)



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Vehicles
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
vehicles@mdpi.com

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About the Journal

Message from the Editor-in-Chief

In response to economic, political, and environmental pressures, the automotive vehicle community is expanding its research, development, and production of more energysaving, environmentally friendly, and safer ground vehicles through vehicle electrification, powertrain hybridization, high-efficiency drivetrain, autonomous or automated driving, vehicle connectivity, and infrastructure.

Vehicles is a new open access and peer-reviewed international journal that will facilitate rapid publication of scholarly articles on studies related to ground vehicles. Its mission is to publish cutting edge articles, conference proceedings, and to organize Special Issues which highlight outstanding research on specific topics regarding all landbased vehicles with regards to the design, modeling and simulation, manufacture, testing, and operation and modification of those vehicles and their engineering systems.

Editor-in-Chief

Prof. Dr. Mohammed Chadli

Department UFR Sciences and Technologies, Université Evry Paris-Saclay, 91020 Evry, France

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