

Special Issue

Sustainable Vehicle Drives

Message from the Guest Editor

In recent years, we have been able to follow exciting progress in the research area of sustainable vehicle drives. Driven by the need to significantly decrease the CO₂ emissions of the transportation sector to reduce the consequences of climate change, disruptive technologies have been of great interest. Here, the three aspects of the sustainability triangle, namely, ecological aspects, economics and social affairs, must be considered integrally. The increasing number of alternative powertrain solutions as well as the growing use of new methodologies such as machine learning, optimization and the use of big data within powertrain applications are promising developments for addressing these pertinent topics. For this Special Issue, we are seeking original contributions within this research area. Topics include, but are not limited to, new powertrain topologies and concepts, developments to increase efficiency and reduce emissions, naturalistic driving studies, sustainable solutions for commercial vehicles as well as the application of modern methods in powertrain applications design.

Guest Editor

Prof. Dr. Stephan Rinderknecht

Institute for Mechatronic Systems in Mechanical Engineering,
Technische Universität Darmstadt, 64287 Darmstadt, Germany

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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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