

## Special Issue

# Performance and Safety Enhancement Strategies in Vehicle Dynamics and Ground Contact

### Message from the Guest Editors

This Special Issue will focus on, but not be limited to, new results in the following topics related to vehicle dynamics and ground interaction:

- Physical models concerning tire/road, wheel/rail, and generic vehicle/ground interaction;
- indentation, friction, and contact mechanics at the ground;
- Control strategies focused on vehicle performance enhancement, in terms of handling/grip, comfort and safety, for passenger, motorsport, and future mobility scenarios;
- Innovative technologies to improve the safety and performance of the vehicle and its subsystems;
- Identification of vehicle and tire/wheel model parameters and state with innovative methodologies and algorithms;
- Implementation of real-time software, logic, and models in onboard architectures and driving simulators;
- Studies and analysis oriented toward the correlation among the factors affecting vehicle performance and safety, with the target to propose strategies for their optimization;
- Application use cases in road and off-road vehicles, e-bikes, motorcycles, buses, trucks, etc.

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### Guest Editors

Dr. Flavio Farroni

Dr. Andrea Genovese

Dr. Aleksandr Sakhnevych

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### Deadline for manuscript submissions

closed (30 September 2021)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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