



Trends and Prospects in Vehicle System Dynamics

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Message from the Guest Editors

The challenges that the automotive sector is facing concerning the implementation of partial and full-automated driving, in conjunction with the impellent need for electrification, require integrated solutions. To this end, vehicle-to-vehicle interaction and new generations of sensors and control strategies, including AI-based algorithms, should be explicitly considered. This Special Issue focuses on emerging technologies and approaches that will support the current trends and prospects in vehicle dynamics. Aspects of interest may include, but are not limited to, the following: novel modeling approaches of vehicular systems and subsystems, with an emphasis on handling and energy-efficiency applications; innovative control/estimation strategies for individual components, vehicles, and fleets; modeling and control of vehicle-to-vehicle interaction, based on future urban and extra-urban mobility scenarios; model-based and model-free path planning, force allocation strategies, and online energy optimization; and the development and integration of novel sensors and devices supporting vehicle dynamics functionalities.





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Message from the Editor-in-Chief

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