



Vehicle Thermal Management Systems

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Vehicle thermal management aims at controlling the temperatures of different components and fluids inside the vehicle with a view to protect the vehicle and the occupants, maximizing the energy performance, limiting the pollutant emissions and ensuring indoor comfort. Thermal management includes cabin indoor control, internal combustion engine thermal management, hybrid and electric vehicles thermal management, waste heat recovery, etc. In order to maximizing the energy performance of a vehicle, decreasing costs, and meeting the packaging constraints and customer expectations, it is important to propose integrated solutions where the vehicle thermal management system is considered as a whole. Sharing components, transferring heat from heat producers to heat consumers onboard or storing energy under different forms for later use are becoming common practices. However, there is still a large potential for improvement and upcoming technical challenges to face. I hope this Special Issue will allow researchers to share their ideas and findings and contribute to propose innovative and efficient vehicle thermal management systems.

Prof. Dr. Vincent Lemort

Guest Editor





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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.

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