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Vehicle Thermal Management Systems

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Deadline for manuscript submissions:
closed (31 March 2019)

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 constrains 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