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Analysis and Synthesis of Coordinated Control Systems for Automated Road Vehicles II

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Message from the Guest Editor

The goal of the Special Issue is to propose analysis and synthesis methods, with which safe and energy-optimal coordination strategies of automated vehicle control systems can be achieved. It poses various control-theoretical challenges. Nevertheless, the conventional reconfigurable, robust parameter-varying, and nonlinear methods provide a starting-point for finding solutions for the recent problems. Moreover, through the novel data-driven and learning-based approaches, promising results in the field of automated vehicle control have been achieved.

The coordination of vehicle control systems is incorporated in a high-level context, which goes beyond the problem of coordination at a vehicle level. Furthermore, the integration of automated vehicles in an intelligent transportation system provides novel performance requirements at a vehicle level. Thus, the coordination of the vehicle control systems must be carried out so as to simultaneously improve the performances at a local and global level. The goal of the Special Issue is to provide new approaches in coordination considering the high-level context.



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Special Issue



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Message from the Editor-in-Chief

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