Message from the WASA 2017 Organizing Committee

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With the advent of software and electronics, automotive companies are enabling innovation to improve safety, driver experience, and fuel efficiency. Increasing use of software over the years, introduced the paradigm shift by requiring automotive companies to develop their systems using architecture and model-based techniques. Although model-based techniques using e.g. MATLAB/Simulink and Stateflow are being accepted in the automotive industry as standard languages and tooling for developing automotive control software, the techniques for system and software architecture are still far from being widely accepted except the AUTOSAR standard, which is used to create the software for the Electronic Control Units (ECUs).

The goal of the third international Workshop on Automotive System/Software Architectures (WASA) is to address issues related to the appropriate automotive system/software architecture and engineering techniques, which can be accepted by the automotive industry. This year our keynote speaker is Jeroen Ploeg (TNO, The Netherlands) who presented the experiences from the Grand Cooperative Driving Challenge 2016 and a common automation framework for cooperative driving. This edition has papers addressing such challenges as, e.g., using big data in vehicles, microservices for self-driving vehicles, mixed-criticality support and industry 4.0 in the automotive manufacturing.

We have also invited three of the papers for the special section of e-Informatica Software Engineering Journal. The special issue is a continuation of the tradition from the previous two workshops where the best papers were published in Information and Software Technology (Elsevier) and Journal of Systems Architecture (Elsevier).