

Second International Workshop on Automotive Software Architectures

Call for Papers

More than a decade ago, the term automotive software engineering was officially introduced in the software community addressing research challenges and technical issues encountering software development in automotive domain. Today automotive vehicles are complex systems with millions of lines of code, dozens of microcontrollers, and intertwined networking system. Self-driving cars, (fully) electric vehicles, Car-to-X communications are all enabled by software and new features require more advanced software architecture and engineering approaches suitable for automotive domain.

Therefore, to bring together researchers and practitioners in the area of automotive software engineering, the international workshop on the Workshop on Automotive Software Architectures (WASA) is being organized with the 13th Working IEEE/IFIP Conference on Software Architecture (WICSA) and the 10th CompArch federated conference series, the premier gatherings of software architecture and component based software engineering practitioners and researchers.

Papers can be submitted in the following categories:

Full papers (8 pages) presenting novel research ideas, significant empirical studies, successful industrial applications, or important perspectives.

Industrial papers (4 pages) sharing industrial experience, challenges, research or technical problems, case studies.

Position or future trend papers (4 pages) raising new ideas, challenges, ongoing research or early research results, and future trends.

All papers must conform, at time of submission, to the IEEE Formatting Guidelines, using the A4 page format. Accepted papers will be submitted for inclusion to IEEE Xplore. Submit your paper electronically via EasyChair.

Topics of interest include, but are not limited to:

- Automotive system/software architecture (Architecture description languages, experiences of applying AUTOSAR standard, integration of software and hardware components, communication infrastructures, ...)
- Automotive software quality
- Automotive software safety
- Automotive component-based software engineering
- Model-based automotive software development
- Automotive software engineering techniques
- Automotive reverse engineering
- Software engineering techniques for autonomous driving vehicles (processing big data generated from all the sensors in the autonomous driving cars, ...)
- Software engineering techniques for hybrid and fully electric vehicles
- Novel software engineering approaches in automotive SE (e.g. continuous integration, software ecosystems)

Important Dates:

Paper submission: February 25th, 2016
Notification of acceptance: March 4th, 2016
Camera-ready: March 11th, 2016
Workshop: April 5th, 2016

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