Automotive – Safety & Security 2019

Automotive - Safety & Security 2019

30.9. - 2.10.2019, Robert Bosch GmbH, Karlsruhe, Germany

jointly with the conference SafeWare Engineering 2019

The automotive sector is experiencing a fundamental change due to the rapidly advancing digitalization, alternative drive concepts, networking of vehicles and infrastructures as well as autonomous driving functions. The ongoing development of classic methods and procedures to ensure the required software quality of safety-critical components no longer meets current automotive requirements. The opening up of global network systems creates new requirements for safeguards against illegal access and for protection of personal data.

As an established symposium, the conference **Automotive Safety & Security 2019** addresses risk-related software topics from various perspectives. For two days, researchers and practitioners will discuss the latest ideas and concrete solutions for mastering the requirements for reliability and security of software-based functions in automotive systems. The conference will take place jointly with the **SafeWare Engineering** conference in Karlsruhe, Germany.

The organisers invite contributions on safety-critical topics from automotive software engineering such as:

- Progress in Standards and Guidelines (Reliability, Security, Safety)
- Architectures for secure, safe and reliable software systems in changing environments

- Security, safety and reliability of connected cars (communication, control, remote diagnosis and maintenance, Car2X)
- Evaluation and qualification of safety and security attributes of automotive platforms and applications
- Tools for the improvement of the reliability in the software life cycle
- Operational safety and protection against unauthorised manipulation of firmware and software in vehicles
- Dependable update methods (authentication, identification, compatibility, etc.)
- On-board and off-board diagnoses
- Hardware support for automotive safety and security requirements
- Multi-core versus single-core concepts for third party suppliers (isolation and cooperation)
- Dependable automotive real time operating systems
- Safety of cognitive driver assistance systems and autonomous driving
- Risk related analysis methods and procedures
- E-Mobility (battery management, secure charging infrastructures etc.)
- Societal, legal and economic aspects of usage and movement profiles
- Security of cloud applications
- Transfer of safety and security related concepts from other application domains
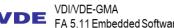
Conference language

The conference language is English.

Proceedings

The accepted papers will be published in the series CCIS – Communications in Computer and Information Science.

Deadlines

04.04.2019 Submission (abstracts of approx. 6 pages; full papers of up to 14 pages preferred)

26.05.2019 Notification of acceptance

09.06.2019 Due date for camera-ready full papers

Submission guidelines

Please adhere to the layout guidelines of the CCIS – Communications in Computer and Information Science available at: https://www.springer.com/series/7899.

Submissions only via the conference system Easychair:

https://easychair.org/conferences/?conf=asw19

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Conference chairs

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www.automotive-deutschland.de