



Call for Papers

SafeWare Engineering

Reliability for the Internet of Things

30.9. - 2.10.2019, Robert Bosch GmbH, Karlsruhe
jointly with the conference **Automotive – Safety&Security 2019**

safeware
engineering
safe and secure software

Smart systems and the Internet of Things (IoT) are increasingly penetrating our everyday life. For the societal acceptance of these applications it is essential that they can be used easily and without danger.

For software to become SafeWare, a software that does not harm people in the broadest sense, it must reliably fulfill its promised function even under adverse circumstances. It must be secured against unauthorized access and protect the confidentiality of data. Aspects of reliability, availability, fault-tolerance, security against attacks, and the protection of private and secret data need to work together to achieve the transition to SafeWare.

The conference offers developers, manufacturers and researchers the opportunity to initiate the necessary transition from software engineering to a true **SafeWare Engineering**.

The organisers invite contributions on topics relevant to SafeWare Engineering such as:

- safety and security in the Internet of Things
- security architectures for smart systems

- reliability as a prerequisite for safe and secure systems
- software concepts for the construction of SafeWare
- hardware support for SafeWare
- issues of multi-core architectures (isolation, cooperation, load balancing)
- secure communication structures
- attack vectors and scenarios
- intrusion detection, containment and prevention
- efficient methods for implementing security
- IoT in autonomous systems in industry and smart homes
- Guidelines and Standards for reliability and security in IoT
- product liability and legal reporting obligations
- data privacy, aggregation and disaggregation issues
- life cycle management for IoT
- safe end-of-life disposal of security-critical components
- studies on the economics of SafeWare

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

12.04.2019 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>

Program chairs

Hubert B. Keller, Karlsruher Institut für Technologie
Erhard Plödereder, Universität Stuttgart

Program committee

Gerhard Beck, Ada Deutschland
Simon Burton, Robert Bosch GmbH
Mirco Conrad, samoconsult GmbH
Peter Dencker, Hochschule Karlsruhe
Christoph Ebert, Vector Consulting
Bernhard Fechner, FU Hagen
Hannes Federrath, Universität Hamburg
Simon Fürst, BMW Group
Erwin Großpietsch, EUROMICRO
Albert Held, Daimler AG
Dieter Hutter, DFKI / Universität Bremen
Stefan Jähnichen, TU Berlin
Jan Jürjens, Universität Landau-Koblenz
Herbert Klenk, Airbus DS
Reiner Kriesten, Hochschule Karlsruhe
Thomas Kropf, Robert Bosch GmbH
Thorsten Kuhles, Robert Bosch GmbH
Ralf Küsters, Universität Stuttgart
Ulrich Lefarth, Thales Deutschland

Jürgen Mottok, OTH Regensburg
Quentin Ochem, AdaCore, New York
Kai Rannenberg, Goethe Universität Frankfurt
Ralf Reussner, Karlsruher Institut für Technologie
Stefan Römmele, Continental AG
Francesca Saglietti, Univ. Erlangen-Nürnberg
Ina Schaefer, TU Braunschweig
Jörn Schneider, Hochschule Trier
Elmar Schoch, BMW Group
Claus Stellwag, Elektrobit Automotive GmbH
Werner Stephan, Burgrieden
Theodor Tempelmeier, Hochschule Rosenheim
Hans-Jörg Wolff, Robert Bosch GmbH
Thomas Wollinger, escript GmbH
Detlef Zerfowski, ETAS GmbH

Organisation

Carsten Amann, Robert Bosch GmbH (Host)
Axel Jasenek, Robert Bosch GmbH (Local Organisation)
Herbert Klenk (Finances, Proceedings)
Peter Dencker, Hochschule Karlsruhe (Web, Exhibition)
Reiner Kriesten, Hochschule Karlsruhe (Tutorials)

Professional sponsors

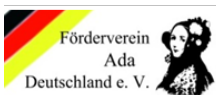
Gesellschaft für Informatik, Divisions „Sicherheit“ and „Softwaretechnik“ with the Special Interest Groups Ada, ASE, ENCRESS, EZON, FERS, FoMSESS, SIDAR
VDI/VDE-GMA, with its FA 5.11 Embedded Software
Förderverein Ada Deutschland e.V.
KASTEL - Competence Center for Applied Security Technology, Karlsruhe



Conference chairs

Carsten Amann, Robert Bosch GmbH
Hubert B. Keller, Karlsruher Institut für Technologie

www.SafeWare-Engineering.org



VDE

VDI/VDE-GMA
FA 5.11 Embedded Software



BOSCH

