

SAFECOMP 2017

Submitted by Anonymous on Thu, 12/15/2016 - 3:04pm

[Sep 12, 2017 7:00 am - Sep 15, 2017 6:00 pm CEST](#)

The 36th International Conference on Computer Safety, Reliability and Security (SAFECOMP17)

CO-LOCATED EVENTS:

SAFECOMP Workshops: 12 September 2017

IMBSA (International Symposium on Model-Based Safety Assessment): 11-13 September 2017

SEFM (Intern. Conference on Software Engineering and Formal Methods): 5-8 September 2017

ABOUT SAFECOMP

SAFECOMP was established in 1979 by the European Workshop on Industrial Computer Systems, Technical Committee 7 on Reliability, Safety and Security (EWICS TC7). Since then, it has contributed to the progress of the state-of-the-art in dependable application of computers in safety-related and safety-critical systems.

SAFECOMP is an annual event covering the state-of-the-art, experience and new trends in the areas of safety, security and reliability of critical computer applications.

SAFECOMP provides ample opportunity to exchange insights and experience on emerging methods, approaches and practical solutions. It is a single track conference without parallel sessions, allowing easy networking.

TOPICS

The conference covers all aspects related to the development, assessment, operation and maintenance of safety-related and safety-critical computer systems. Topics include, but are not limited to:

- * Fault-tolerant and resilient hardware and software architectures
- * Fault detection and recovery mechanisms
- * Distributed and real-time monitoring and control
- * Security and privacy protection mechanisms for safety applications
- * Safety/security risk assessment

- * Model-based analysis, design, and assessment
- * Formal methods for verification, validation, and fault tolerance
- * Probabilistic verification and validation
- * In-the-loop and model-based testing
- * Validation and verification methodologies and tools
- * Methods for qualification, assurance and certification
- * Compositional verification and certification
- * Architecture-driven assurance of safety and security
- * Dependability analysis using simulation and experimental measurement
- * Cyber-physical threats and vulnerability analysis
- * Safety guidelines, standards and certification
- * Safety and security interactions and tradeoffs
- * Safety and security cases
- * Multi-concern dependability assurance and standardization

Domains of application include (but are not limited to):

- Railways, automotive, space, avionics, nuclear and process industries
- Autonomous systems, advanced robotics, construction engines and off-road vehicles
- Telecommunication and networks
- Safety-related applications of smart systems and IoT (Internet of Things, Smart Anything Everywhere)
- Critical infrastructures, smart grids, SCADA
- Medical devices and healthcare
- Defense, emergency & rescue
- Logistics, industrial automation, off-shore technology
- Education & training

2017 SPECIAL THEME:

Design, verification, and assurance of space systems.

WORKSHOPS AND EXHIBITION

It is planned to have one day for workshops. Workshop proposals are welcome. The proposals must be sent by email to the SAFECOMP17 Workshop Chair (erwin.schoitsch@ait.ac.at). They should include planned scope and contents, Program Committee, and duration (one full or half day). SAFECOMP Workshop Proceedings are planned if a properly reviewing process is implemented.

A dedicated space will be available for a Technical Exhibition in the area where coffee breaks and lunches take place. Organizations wishing to present their products or projects are invited to request further information from the conference secretariat.

COMMITTEES

EWICS TC7 Chair

- Francesca Saglietti (Univ. of Erlangen-Nuremberg, DE)

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- Stefano Tonetta (FBK, IT)

Publication Chair

- Friedemann Bitsch (Thales, DE)

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- Silvia Malesardi (FBK, IT)

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International Program Committee

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- Wolfgang Halang (Fernuniversitat in Hagen, DE)
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- Bernhard Kaiser (Berners&Mattner, DE)
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- Joost-Pieter Katoen (RWTH Aachen University, DE)
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- John Knight (University of Virginia, US)

- Floor Koornneef (TU Delft, NL)
- Timo Latvala (Space Systems Finland, FI)
- Silvia Mazzini (Intecs, IT)
- John McDermid (University of York, UK)
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- Michael Paulitsch (Thales Austria, AT)
- Holger Pfeifer (fortiss, DE)
- Thomas Pfeiffenberger (Salzburg Research, AT)
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- Laurent Rioux (Thales R&T, FR)
- Alexander Romanovsky (Newcastle University, UK)
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- Kristin Yvonne Rozier (Iowa State University, US)
- John Rushby (SRI International, US)
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- Oleg Sokolsky (University of Pennsylvania, US)
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- Mark-Alexander Sujan (University of Warwick, UK)
- Stefano Tonetta (FBK, IT)
- Martin Torngren (KTH, SE)
- Mario Trapp (Fraunhofer, DE)
- Elena Troubitsyna (Aabo Akademi, FI)
- Tullio Vardanega (University of Padua, IT)
- Marcel Verhoef (European Space Agency, NL)
- Helene Waeselynck (LAAS-CNRS, FR)

Event Details

Location: Trento, Italy

URL: <http://www.safecomp.org>

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