

Safe Comp 2017

CALL FOR PAPERS: SASSUR 2017

6th International Workshop on Next Generation of System Assurance Approaches for Safety-Critical Systems – SASSUR-2017

Trento, Italy, September 12th, 2017

In conjunction with the International Conference on Computer Safety, Reliability and Security, SAFECOMP <http://safecomp17.fbk.eu/>

Safety assurance and certification are amongst the most expensive and time-consuming tasks in the development of safety-critical systems. The increasing complexity and size of these systems combined with their growing market demand requires the industry to implement coherent reuse strategies. A key difficulty appears when trying to reuse products from one application domain in another, because different domains are subject to different safety regulations. Subsequently, for a reused product, the full safety assurance and certification process usually has to be applied, just as for a new product. This reduces the return on investment of such reuse. Further, market trends strongly suggest that many future safety-critical systems will be comprised of heterogeneous, dynamic coalitions of systems of systems. For this type of systems, it is crucial to develop sound strategies that would allow safety assurance and certification to be done compositionally. Last but not least, the new characteristics of safety-critical systems, such connectivity, autonomy, and other cyber-physical properties, makes assurance more challenging. It is not possible anymore to assure a system only dealing with its safety, but other quality concerns must be addressed, e.g. security.

The SASSUR workshop is intended to explore new ideas on compositional, evolutionary, and multi-concern assurance and certification of safety-critical systems. In particular, SASSUR will provide a forum for thematic presentations and in-depth discussions about reuse, composition, and combination of assurance arguments, assurance evidence, and contextual information about safety-critical products, in a way that makes assurance and certification more cost-effective, precise, and scalable.

SASSUR aims at bringing together experts, researchers, and practitioners, from diverse communities, such as safety and security engineering, certification processes, model-based technologies, software and hardware design, safety-critical systems, and application communities (railway, aerospace, automotive, healthcare, industrial automation, etc.).

TOPICS

Contributions are sought in (but are not limited to) the following topics:

- Industrial challenges for cost-effective safety assurance and certification
- Challenges for assuring safety and security in autonomous systems
- Cross-domain product certification
- Integration of process-centric and product-centric assurance
- Management of compliance with standards and regulations
- Evidence traceability
- Transparency of assurance and certification processes: metrics and business cases
- Multi-concern system assurance
- Evolutionary approaches for safety and security assurance
- Tools support for safety and security assurance
- Seamless toolchains for development, assurance, and certification of safety-critical systems
- Evolution of standards and trends on regulations
- Human factors in safety and security assurance
- COTS or external sourcing management of evidence in safety-critical systems
- Mixed-criticality system assurance
- Safety assurance for adaptive systems

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INFORMATION FOR AUTHORS

Attendees are invited to submit position papers (max. 6 pages) or full technical contributions (max. 12 pages) written in English in PDF format using EasyChair System:

<https://easychair.org/conferences/?conf=sassur17>

Submissions must conform to the Springer LNCS formatting guidelines. Papers will be peer-reviewed by at least three members of the steering and programme committees. If accepted for presentation, they will also be published as workshop proceedings articles (printed by the organizers and available electronically as well).

The authors will be notified about acceptance before the SAFECOMP 2017 early registration deadline.

DEADLINES

Paper submission: ~~May 17th 2017~~ (extended) May 24th 2017

Notification to authors: June 5th, 2017

Camera ready version: June 12th, 2017

Workshop: September 12th, 2017

Workshop Committees

Organizers

- Alejandra Ruiz, TECNALIA, Spain
- Tim Kelly, University of York, UK
- Jose Luis de la Vara, Universidad Carlos III de Madrid, Spain

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