CALL FOR PAPERS

Developing self-adaptive, self-organising systems (SASO) that fulfil the requirements of different stakeholders is no simple matter. Quality assurance is required at each phase of the entire development process, starting from requirements elicitation, system architecture design, agent design, and finally in the implementation of the system. The quality of the artefacts from each development phase affects the rest of the system, since all parts are closely related to each other. Furthermore, the shift of adaptation decisions from design-time to run-time – necessitated by the need of the systems to adapt to changing circumstances – makes it difficult, but even more essential, to assure high quality standards in these kind of systems. Accordingly, the analysis and evaluation of these self-* systems has to take into account the specific operational context to achieve high quality standards.

The necessity to investigate this field has already been recognized and addressed in different communities but there exists so far no platform to bring all these communities together. Therefore, the workshop will provide an open stage for discussions about the different aspects of quality assurance for self-adaptive, self-organising systems. Examples for topics of interest are:

**Modelling and verification**
- formal models and modelling languages such as automata, state machines, process algebras, logics, HOL, Markov-chains, UML
- run-time verification and validation in SASO systems

**Empirical evaluation**
- measurement and evaluation of resilience, security, performance, reliability, and cost in SASO systems
- benchmarking of SASO systems

**Test-centred development**
- test derivation, test selection, test coverage, test implementation and execution, test result analysis, test oracles, test management, and monitoring
- automated support of any of the testing activities, rigid testing processes, test driven development

**Case studies, industrial applications, and experience reports**

**SUBMISSIONS**

The workshop organisers solicit original research papers, position papers, as well as experience reports on the topics outlined in the description with a maximum length of 6 pages. At least three members of the program committee will review each paper in a single-blind process. The decision will be based on the motivation of the topic, the clarity of the claims of the contribution, the relevance of the research, its evaluation, and the thoroughness of the related work comparison. Submitted papers must not have been previously published or submitted elsewhere.

**PUBLICATION**

The proceedings of the workshop will be published as a bundle with the main conference proceedings, presumably by IEEE Computer Society Press.

**IMPORTANT DATES**

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**WEBSITE**

More information can be found at [http://qa4saso.isse.de](http://qa4saso.isse.de)

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**PAPER FORMAT**

Maximum of 6 pages, formatted according to the IEEE Computer Society Press proceedings style guide.