

IEEE International Workshop on Dependability Testing and Evaluation of Safety-critical Systems (DTES)

DESCRIPTION

A safety-critical system (SCS) refers to a system whose incorrect function or failure can lead to catastrophic consequences such as casualties or damage to equipment or facilities. Typical safety-critical systems include high speed rails, automatic driving vehicles, power grids, ships, aerospace, aviation, electronics, medical, and financial systems, etc. With the extensive use of Internet of Things, big data, cloud computing, deep learning and other new emerging technologies, the complex interaction among software, hardware, network, and the environment makes safety-critical systems more difficult to be fully tested and evaluated for dependability. The DTES workshop seeks to bring together worldwide researchers and industry practitioners together to discuss cutting-edge theories, methods, and technologies to explore and inspire the innovative ideas and advanced solutions in the related fields.

TOPICS OF INTEREST

- ◆ Algorithms, tools, and implementation support of SCS testing
- ◆ Benchmark suites definitions and evaluation criteria for SCS
- ◆ Model-based SCS dependability analysis and evaluation
- ◆ Architecture-oriented SCS dependability analysis and evaluation
- ◆ Data-driven SCS defect prediction and localization
- ◆ Defect characterization of SCS
- ◆ Formal methods for SCS dependability
- ◆ Online evaluation and prediction of SCS dependability
- ◆ Simulation methods for SCS dependability
- ◆ Reliability, resilience, and vulnerability for SCS

IMPORTANT DATES

- ◆ September 20, 2021: Workshop papers due
- ◆ October 20, 2021: Author notification
- ◆ November 1, 2021: Camera-ready & author registration
- ◆ December 6-10, 2021: Conference dates

SUBMISSION

Authors are invited to submit original unpublished research papers as well as industrial practice papers. Simultaneous submissions to other conferences are not permitted. Detailed instructions for electronic paper submission, panel proposals, and review process can be found at <https://qrs21.techconf.org/submission>. The length of a camera-ready paper will be limited to eight pages. Each paper should include a title, the name and affiliation of each author, a 150-word abstract, and up to 6 keywords. Shorter version papers (up to four pages) are also allowed. All papers must conform to the QRS conference proceedings format ([PDF](#) | [Word DOCX](#) | [Latex](#)) and Submission Guideline set in advance by QRS 2021 co-located workshops. At least one of the authors of each accepted paper is required to pay the full registration fee and present the paper at the workshop. Arrangements are being made to publish accepted papers in reputable SCI journals. Submissions must be in PDF format and uploaded to the conference submission site.

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GENERAL INQUIRIES

For more detailed and updated information, please refer to <http://qrs.techconf.org>. For paper submission, review, or other questions, please send emails to Professor Shunkun Yang at ysk@buaa.edu.cn.