



QRS 2020

The 20th IEEE International Conference on
Software Quality, Reliability, and Security

July 27-31, 2020 • Vilnius, Lithuania
<https://qrs.techconf.org/>



In 2015, the SERE conference (IEEE International Conference on Software Security and Reliability) and the QSIC conference (IEEE International Conference on Quality Software) were combined into a single conference, QRS, with **Q** representing *Quality*, **R** for *Reliability*, and **S** for *Security*, sponsored by the IEEE Reliability Society. This conference provides engineers and scientists from both industry and academia a platform to present their ongoing work, relate their research outcomes and experiences, and discuss the best and most efficient techniques for the development of reliable, secure, and trustworthy systems. It also represents an excellent opportunity for the academic community to become more aware of subject areas critical to the software industry as practitioners bring their needs to the table. The 20th QRS conference will be held from July 27-31 in Vilnius, Lithuania.

TOPICS OF INTEREST

- ◆ Reliability, Security, Availability, and Safety of Software Systems
- ◆ Software Testing, Verification, and Validation
- ◆ Program Debugging and Comprehension
- ◆ Information and Software Quality Assurance
- ◆ Fault Tolerance for Software Reliability Improvement
- ◆ Modeling, Prediction, Simulation, and Evaluation
- ◆ Metrics, Measurements, and Analysis
- ◆ Secure and Reliable Storage
- ◆ Software Penetration and Protection
- ◆ Software Vulnerabilities
- ◆ Formal Methods
- ◆ Malware Detection and Analysis
- ◆ Intrusion Detection and Prevention
- ◆ Operating System Security and Reliability
- ◆ Mobile and Smartphone Applications
- ◆ Internet of Things and Cloud Computing
- ◆ Information and Knowledge Management
- ◆ Benchmark, Tools, Industrial Applications, and Empirical Studies
- ◆ Machine Learning and Deep Learning Models and Systems

IMPORTANT DATES

- ◆ January 15, 2020: Workshop proposals due
- ◆ **March 22, 2020: Abstracts due (extended)**
- ◆ **April 1, 2020: Regular & Short papers due (extended)**
- ◆ May 1, 2020: Fast Abstracts, Industry Track due
- ◆ May 1, 2020: Workshop papers due
- ◆ May 31, 2020: Author notification
- ◆ June 19, 2020: Camera-ready & author registration due
- ◆ July 27-31, 2020: Conference dates

SUBMISSION

Submit original manuscripts (not published or considered elsewhere) with the following page maximums: twelve pages (regular papers), eight pages (short papers and workshop papers), and two pages (Fast Abstracts Track and Industry Track). Each paper should include a title and the name and affiliation of each author. Except for the Fast Abstracts Track and Industry Track, each submission should also include a 150-word abstract and up to 6 keywords. The format of your submission must follow the [guidelines for IEEE conference proceedings](#). At least one Best Paper Award with a cash prize will be presented. Detailed instructions for paper submission can be found at <https://qrs.techconf.org>.

CONFERENCE PROCEEDINGS & SPECIAL SECTION OF IEEE TRANSACTIONS ON RELIABILITY

IEEE Computer Society Conference Publishing Services (CPS) will publish the proceedings. Accepted papers will also be submitted for inclusion in the IEEE Xplore and to other abstracting and indexing partners such as the Ei Compendex. *Selected papers of high quality will be published in a special section of IEEE Transactions on Reliability instead of the conference proceedings. This will speed up the journal publication of these papers.*

ORGANIZING COMMITTEE

- | | | |
|--------------------------|--------------------|--|
| ◆ Honorary General Chair | Huimin Lin | Chinese Academy of Sciences |
| ◆ General Chair | Shaoying Liu | Hosei University |
| ◆ General Chair | Vytautas Bučinskas | Vilnius Gediminas Technical University |
| ◆ Program Chair | Christof Budnik | Siemens Corporate Technology, New Jersey |
| ◆ Program Chair | Mei Nagappan | University of Waterloo |
| ◆ Program Chair | W.K. Chan | City University of Hong Kong |

STEERING COMMITTEE CHAIRS

- | | |
|----------------|-------------------------------|
| ◆ W. Eric Wong | University of Texas at Dallas |
| ◆ T.H. Tse | The University of Hong Kong |

GENERAL INQUIRIES

For more detailed and updated information, please refer to <https://qrs.techconf.org>. For paper submission, review, or other questions, please send emails to qrsconference@outlook.com.