

QRS 2021 Best Papers Awards and Recommendation to IEEE Transactions on Reliability

Dear Colleague

We are very pleased to announce the selection and voting process for the Best Paper Awards of QRS 2021 (The 21st IEEE International Conference on Software Quality, Reliability, and Security) and papers recommended to the IEEE Transactions on Reliability (TR).

Of more than 300 regular and short paper submissions, Program Chairs will select 10 papers of the utmost quality based on the reviews and online discussions. These papers will be divided into two groups.

All the time slots are based on the time in Hainan Island, China (UTC+8).

Group 1 includes the following five papers listed in random order.

08:30 am – 09:45 am, Wednesday, December 8, 2021

1. 08:30 am – 08:45 am
Title: Confuzzion: A Java Virtual Machine Fuzzer for Type Confusion Vulnerabilities
Authors: William Bonnaventure, Ahmed Khanfir, Alexandre Bartel, Mike Papadakis, and Yves Le Traon
2. 08:45 am – 09:00 am
Title: ConcSpectre: Be Aware of Forthcoming Malware Hidden in Concurrent Programs
Authors: Yang Liu, Ming Fan, Ting Liu, Yu Hao, Zisen Xu, Kai Chen, Hao Chen, and Yan Cai
3. 09:00 am – 09:15 am
Title: SRTEF: Automatic Test Function Recommendation with Scenarios for Implementing Stepwise Test Case
Authors: Kaiqi Liu, Ji Wu, Haiyan Yang, Qing Sun, and Ruiyuan Wan
4. 09:15 am – 09:30 am
Title: Understanding the Resilience of Neural Network Ensembles against Faulty Training Data
Authors: Abraham Chan, Niranjhana Narayanan, Arpan Gujarati, Karthik Pattabiraman, and Sathish Gopalakrishnan
5. 09:30 am – 09:45 am
Title: MINTS: Unsupervised Temporal Specifications Miner
Authors: Pradeep Mahato and Apurva Narayan

An extended version of each paper revised based on the comments received from the QRS conference will be recommended to TR. Conference attendees after listening to the presentations will vote on the Best Paper Award between 08:30 am – 11:00 pm, (Beijing time), Wednesday, December 8, 2021. More details will be announced.

The top 3 that receive the most votes are the winners. If there is a tie, papers with the same number of votes will all receive the awards.

Group 2 includes the following five papers listed in random order.
08:30 am – 09:45 am (Beijing time), Thursday, December 9, 2021

1. 08:30 am – 08:45 am
Title: Event Stream Classification with Limited Labeled Data for E-Commerce Monitoring
Authors: Alexander Zimin, Igor Mishchenko, and Rebecca Steinert
2. 08:45 am – 09:00 am
Title: An Effective Crowdsourced Test Report Clustering Model based on Sentence Embedding
Authors: Hao Chen, Song Huang, Yuchan Liu, Run Luo, and Yifei Xie
3. 09:00 am – 09:15 am
Title: Can Higher-Order-Mutants Improve the Performance of Mutation-based Fault Localization?
Authors: Haifeng Wang, Zheng Li, Kun Lou, Xiang Chen, Yong Liu, and Ying Shang
4. 09:15 am – 09:30 am
Title: Automatic Adaptation of Reliability and Performance Trade-Offs in Service- and Cloud-based Dynamic Routing Architectures
Authors: Amirali Amiri, Uwe Zdun, André van Hoorn, and Schahram Dustdar
5. 09:30 am – 09:45 am
Title: The Relation between Bug Fix Change Patterns and Change Impact Analysis
Authors: Ekinan Ufuktepe, Tugkan Tuglular, and Kannappan Palaniappan

Conference attendees after listening to the presentations will vote on the recommendation to TR between 08:30 am – 11:00 pm, (Beijing time), Thursday, December 9, 2021. More details will be announced.

The top 3 that receive the most votes will be recommended.

In summary, 3 papers in Group 1 with the most votes will receive the Best Paper Awards.

All 5 papers in Group 1 and the 3 highest voted papers in Group 2 will be recommended to TR. All together there will be 8 papers recommended to TR.

Only attendees with complete registrations are eligible for voting. Each registration allows one vote for Group 1 for the Best Paper Awards and one vote for Group 2 for additional TR recommendations.

Please visit the QRS 2021 [Registration site](#) for more details on conference registration.

Also visit the QRS [conference website](#) for updates on the selection and voting process.

QRS 2021 Program Chairs (Alphabetical Order)

Katerina Goseva-Popstojanova, West Virginia University, USA

Henrique Madeira, University of Coimbra, Portugal

Zheng Zheng, Beihang University, China