

DSA 2021

Eighth International Conference on Dependable Systems and Their Applications Yinchuan, China • August 5-6, 2021

In 2017, the International Conference on Trustworthy Systems and Their Applications (TSA) and the International Symposium on Dependable Computing and Internet of Things (DCIT) were merged into one large conference and renamed as the International Conference on Dependable Systems and Their Applications (DSA). This year will be the fifth meeting after the merge. In the past, both TSA and DCIT were technically sponsored by the IEEE Reliability Society. Following the same tradition, DSA 2021 also has the same technical sponsorship from IEEE. The focus is on innovative methodologies, techniques, tools, and management to produce dependable and trustworthy systems and their applications in a more cost-effective way. It provides an opportunity for academic researchers, industry practitioners, and government policy and decision makers to exchange ideas and results, share experiences, and explore possible solutions to overcome current challenges.

TOPICS OF INTEREST

- ◆ Algorithms, Architecture, Framework, Design Patterns and Maintenance for Dependable Systems and Software
- ◆ Security, Threats, Privacy, Safety, and Risk Management
- ◆ Dependability and Reliability Modeling and Measurement
- ◆ Fault Tolerance, Survivability, Resilience, and Availability
- ◆ Metrics, Measurement, and Quality Assessment
- ◆ Requirements, Process, Standards, Productivity, and Project Management
- ◆ Quality Assurance, Maintenance, and Reverse Engineering and Re-Engineering
- ◆ Verification, Validation, Testing, Analysis, Debugging, Model Checking, and Program Repair
- ◆ Formal Methods and Theories
- ◆ Communication, Networking, Optimization, and Performance
- ◆ Pervasive, Ubiquitous, Service-Oriented, and Cloud Computing
- ◆ Collaborative, Distributed, Embedded, Real-Time, High Performance, Highly Dependable, Intelligent, Multimedia Systems
- ◆ Big Data and Storage
- ◆ Prognostics and Health Management
- ◆ IoT, Supply Chain, Cyber-Physical Systems, Industry 4.0 and Smart City
- ◆ Empirical Studies, Benchmarking, and Industrial Best Practices
- ◆ Applications and Tools and Automation

IMPORTANT DATES

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|------------------|--------------------------------|--------------------|-------------------------|
| ◆ May 20, 2021: | Paper submission due | ◆ July 15, 2021: | Author registration due |
| ◆ July 1, 2021: | Author notification | ◆ August 5-6, 2021 | Conference dates |
| ◆ July 15, 2021: | Camera-ready and copyright due | | |

SUBMISSION & EVALUATION

Papers related to the topics of interests are solicited. Submissions must not have been published or be concurrently considered for publication elsewhere. The main conference has three types of submissions: Regular Paper (12 pages), Short Paper (6 pages), and Fast Abstract (2 pages). DSA also has co-located workshops with a maximum of 10 pages. Each submission must include the title of the paper, the name and affiliation of each author, and up to 6 keywords. Regular, short, and workshop papers should also have a 150-word abstract. All papers should be written in English and submitted as a PDF file. They must conform to the format set by DSA 2021. Submissions that do not comply with the above instructions will be rejected without review. Each submission will be reviewed by three members of the Program Committee and evaluated on originality, contribution, soundness, presentation and relatedness. The program committee as a whole will make final decisions about which submissions to accept for presentation at the conference.

CONFERENCE PROCEEDINGS

The conference proceedings will be published by the IEEE Conference Publishing Services. Papers presented at the conference will also be submitted for inclusion into IEEE Xplore and to all of the A&I (abstracting and indexing) partners (such as the Ei Compendex and DBLP). Papers of top quality will be invited to submit their extended versions to selected SCI or EI journals.

ORGANIZING COMMITTEE

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|-----------------|---------------------|---|
| ◆ General Chair | Fevzi Belli | University of Paderborn, Germany |
| ◆ General Chair | Wenxing Bao | North Minzu University, China |
| ◆ Program Chair | Mohammad Zulkernine | Queen's University, Canada |
| ◆ Program Chair | Tao Zhang | Macau University of Science and Technology, China |

GENERAL INQUIRIES

For more details and updated information, please refer to the conference website <https://dsa.techconf.org>, or contact the DSA Secretariat at dsa@techconf.net.