



Seventh International Conference on Dependable Systems and Their Applications

Xi'an, China • November 28-29, 2020

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 International Conference on Dependable Systems and Their Applications (DSA). This year is the fourth meeting after the merge. In the past, both TSA and DCIT were technically sponsored by the IEEE Reliability Society. Following the same tradition, DSA 2020 also has the same technical sponsorship from IEEE. It is organized by the Northwestern Polytechnical University, Peng Cheng Laboratory in Shenzhen, and Harbin Institute of Technology. In addition, the conference receives support from Aviation Key Laboratory of Science and Technology on Airborne and Missile-borne Computer, Beijing Sunwise Information Technology, Ltd., Beihang University, and Beijing High Quality of System Technology Ltd. DSA 2020 focuses on innovative methodologies, techniques, tools, and management to produce dependable and trustworthy systems and their applications in a more cost-effective way. It provides a discussion forum to bring together 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 Clouding 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

- | | | | |
|----------------------------|--|--------------------------|-------------------------|
| ◆ October 20, 2020: | Paper submission due (extended) | ◆ November 10, 2020: | Author registration due |
| ◆ November 1, 2020: | Author notification | ◆ November 28 - 29, 2020 | Conference dates |
| ◆ November 10, 2020: | Camera-ready and copyright due | | |

SUBMISSION

Papers related to the topics of interests are solicited. Submissions must not have been published or be concurrently considered for publication elsewhere. There are three types of submissions: Regular Paper (12 pages), Short Paper (6 pages), and Fast Abstract (2 pages). Papers should be written in English and submitted in PDF file. Each submission must include the title of the paper, the name and affiliation of each author, and up to 6 keywords. Regular and short papers should also have a 150-word abstract. The format of your submission must follow the [IEEE conference proceedings format](#).

CONFERENCE PROCEEDINGS

The conference proceedings will be published by the IEEE Computer Society Conference Publishing Services (CPS). Papers presented at the conference will also be submitted for inclusion into the 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 INQUIRIES

For more detailed and updated information, please refer to <https://dsa.techconf.org>, or contact Program Chairs, Professor Yin Lu at luyin@nwpu.edu.cn or Professor Fan Zhang at fan.zhang@pcl.ac.cn.