DSA 2025

Twelfth International Conference on Dependable Systems and Their Applications

Sharjah, UAE, November 24-26, 2025

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 the International Conference on Dependable Systems and Their Applications (DSA). This year will be the ninth meeting after the merge. In the past, both TSA and DCIT were technically sponsored by the IEEE Reliability Society. Following the same tradition, DSA 2025 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 more cost-effectively. In particular, this year's conference emphasizes using emerging AI and machine learning/deep learning technologies to further enhance existing approaches. DSA 2025 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. It will be held from November 24-26 and hosted by the American University of Sharjah, which is about 20 minutes from Dubai, the United Arab Emirates.

TOPICS OF INTEREST

- Algorithms, Architecture, Framework, Design Patterns, and Maintenance for Dependable Systems and Software
- AI and ML/DL-based Techniques for System Dependability
- Dependability of Generative AI
- Security, Threats, Privacy, Safety, and Risk Management
- Dependability and Reliability Modelling and Measurement
- Requirements, Process, Standards, Productivity, and Project Management
- Quality Assurance, Maintenance, Reverse Engineering, and Re-Engineering
- Verification, Validation, and Testing
- Analysis, Debugging, Model Checking, and Program Repair

- Metrics, Measurement, and Quality Assessment
- Communication, Networking, Optimization, and Performance
- Fault Tolerance, Survivability, Resilience, and Availability
- Collaborative, Distributed, Embedded, Real-Time, High Performance, Highly Dependable, Intelligent, and Multimedia Systems
- Big Data and Analysis
- 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
- Approaching Artificial Creativity

IMPORTANT DATES

- September 15, 2025 — Regular & Short Papers due
- October 1, 2025 — Workshop Papers due
- October 1, 2025 — Fast Abstracts & Industry Track due
- October 20, 2025 — Author notification
- November 1, 2025 — Camera-ready due
- November 1, 2025 — Author registration due
- November 24-26, 2025 — Conference dates

SUBMISSION

There are five types of submissions:

- Regular Paper — 12 pages
- Short Paper — 10 pages
- Industry Paper — 2 pages
- Fast Abstract — 2 pages
- Workshop Paper — 10 pages

Submit original manuscripts (not published or considered elsewhere). Each submission should include a title, the name and affiliation of each author, an abstract, and up to 6 keywords. The format must follow the DSA proceedings format. At least one Best Paper Award will be presented. Detailed instructions for paper submission can be found at https://dsa25.techconf.org/submission.

CONFERENCE PROCEEDINGS & SPECIAL ISSUES OF SCI JOURNALS

Conference proceedings will be published by the IEEE 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). Authors of top-quality papers will be invited to submit their extended versions to special issues of selected SCI journals.

ORGANIZING COMMITTEE

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GENERAL INQUIRIES

For more detailed and updated information, please refer to https://dsa.techconf.org/. For paper submission, review or other questions, please send emails to the DSA Secretariat.