

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 to form a larger and more comprehensive event, the International Conference on Dependable Systems and Their Applications (DSA). DSA 2027 marks the Eleventh edition of the conference since this successful merger, reflecting over a decade of continued growth and collaboration within the scientific community. Both TSA and DCIT were technically sponsored by IEEE, and DSA 2027 continues this tradition. Building upon the strong foundations established by its predecessor conferences, DSA serves as an important forum for the presentation and discussion of innovative methodologies, techniques, tools, and management practices aimed at developing dependable and trustworthy systems and applications in a cost-effective manner. In particular, DSA 2027 highlights the growing role of emerging technologies, including artificial intelligence (AI), machine learning, deep learning, and large language models (LLMs), in advancing the state of the art in system dependability, reliability, security, and trustworthiness. The conference provides an excellent opportunity for academic researchers, industry practitioners, and government policymakers and decision-makers to exchange ideas and research results, share experiences and best practices, and explore innovative solutions to current and future challenges in the field. DSA 2027 will be held in Istanbul, Turkey, on October 2–3, 2027.

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 Modeling 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

August 8, 2027	Regular & Short Papers due	September 12, 2027	Camera-ready due
August 19, 2027	Workshop Papers due	September 12, 2027	Author registration due
August 19, 2027	Fast Abstracts & Industry Track due	October 2-3, 2027	Conference dates
September 5, 2027	Author notification		

Submission

There are five types of submissions:

Regular Paper	12 pages	Fast Abstract	2 pages
Short Paper	10 pages	Workshop Paper	10 pages
Industry Paper	2 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://dsa27.techconf.org/submission.

Conference Proceedings & Special Issues of SCI Journals

Conference proceedings will be published by the IEEE Conference Publishing Services (CPS). Papers in the proceedings will be submitted for inclusion in the IEEE Xplore and to all of the A&I (abstracting and indexing) partners (such as the Ei Compendex and Scopus). These papers will also appear in Google Scholar and the DBLP database.

Organizing Committee

Honorary Conference Chair	Enes Eryarsoy	Haliç University, Turkey
General Chair	Şadi Evren Şeker	University of Texas at Dallas, USA
General Chair	Manuel Núñez	Universidad Complutense de Madrid, Spain
Program Chair	Jun Ai	Beihang University, China

Steering Committee Chair

W. Eric Wong	University of Texas at Dallas, USA

General Inquiries

For more detailed and updated information, please refer to https://dsa27.techconf.org/. For paper submission, review or other questions, please send emails to the DSA Secretariat.