



50th IEEE/IFIP International Conference on Dependable Systems and Networks

UNIVERSITAT POLITÈCNICA DE VALÈNCIA
VALENCIA (SPAIN)

JUNE 29 – JULY 2, 2020

www.dsn.org



Society today is increasingly dependent on the correct functioning of computer systems, edge devices, and networks for many services we take for granted every day, including aviation, energy production & power grids, autonomous vehicles, medical devices, and many others.

The Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) is devoted to the mission of ensuring that computing systems and networks on which society relies are dependable and secure.

DSN, one of the longest running IEEE conferences and celebrating its 50th edition in 2020, has pioneered the fusion between dependability and security research under a common body of knowledge, understanding the need to simultaneously fight against accidental faults, intentional cyber-attacks, design errors, and unexpected operating conditions. Its distinctive approach to both accidental and malicious faults made DSN the most prestigious international forum for presenting research furthering robustness and resilience of today's computing systems and networks.

All aspects of the research and practice of dependability, resilience, and applied security, covering the full life cycle of systems, are within the scope of DSN. This includes from requirements and specification definition to system operation and maintenance, aimed at preventing, detecting, recovering, or assessing the impact of faults or attacks. Standardization and certification related challenges and practices are also relevant.

Authors are invited to submit original papers on the DSN's current thematic areas of emphasis:

- Hardware (e.g., microprocessors, memories, systems on chip, I/O devices, storage systems, trusted computing).
- Software (e.g., applications, middleware, distributed algorithms, operating systems).
- Networks (e.g., wireless networks, mobility, software-defined networking, edge computing, networks on chip, intrusion detection systems, network security).
- Clouds (e.g., blockchain, cloud storage, cloud security and privacy, cloud computing, platforms and applications).
- Cyber-physical systems (e.g., embedded systems, real-time control of critical systems, Internet of things, smart grid, automotive, aerospace, railways, medical systems).
- Autonomous systems (e.g., resilient AI/Machine Learning-based systems, self-driving vehicles, autonomous robots, assured autonomy, explainable decision making, acceptability).
- Models and methodologies for programming, evaluating, verifying, and assessing dependable and secure systems (e.g., performance and dependability evaluation, analytical and numerical methods, simulation, experimentation, benchmarking, verification, field data analysis).

This year DSN will take place at the Universitat Politècnica de València, one of the most important Technical Universities in Spain. Along with an amazing touristic, cultural and gastronomic offering, València offers kilometers of beaches and endless options to enjoy, alone or in family, an average of 300 days of sun per year. We are looking forward to welcoming you in Valencia in June 2020.

Information to authors

The program will include plenary talks, regular papers, experience reports, an industry track, a doctoral forum, a fast abstracts track, together with state-of-the-art workshops and tutorials.

Papers will be assessed with criteria appropriate to each category. The conference favors work that explores new territory, continues a significant research dialogue, or reflects on experience with (or measurements of) state-of-the-art implementations. Submissions will be judged on originality, significance, correctness, and impact. Research Papers, Practical Experience Reports, and Tool Descriptions will be refereed and included in the Proceedings of the DSN 2020, if accepted. All contributions must be written in English. IEEE Computer Society will publish accepted contributions. At least one author of every accepted paper is expected to register for the conference and present the work.

The best paper, among those accepted for publication in the Research track, will be distinguished with the Best Paper Award of the conference.

Workshop and tutorial proposals are also welcome.

Important dates

- *Research Track, including Regular Papers, Practical Experience Reports and Tool Descriptions*
 - Abstract Submission: 03 December 2019
 - Paper Submission: 13 December 2019
 - Author Rebuttal Period: 17-19 February 2020
 - Author Notification: 04 March 2020
- *Industry Track, Workshops, Tutorials, Fast Abstracts and Doctoral Forum* → Dates available at the DSN2020 website

For further information

Access the DSN website (www.dsn.org), contact with the DSN 2020 general chairs (generalchairs@dsn.org) and/or follow the event on twitter ([@DSN2020](https://twitter.com/DSN2020)) for more details.



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