

Message from the Workshops Chairs

DSN 2020

On behalf of the workshops organizing committee of the 50th annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2020), we are pleased to welcome you to the first virtual instance of the DSN workshops.

This is the 50th edition of DSN, the premier conference on Dependable Computing. As every year the selection of workshops affiliated with DSN was done based on carefully reviewing the submitted proposals. The program includes four workshops that capture both dependability and security aspects of DSN while spanning applications with high societal impact such as machine learning, autonomous systems, and data-centric systems.

Workshop on Dependable and Secure Machine Learning. This workshop is focused around the timely topic of machine learning. The major goal of the workshop is to draw the attention of the research community to the problem of establishing guarantees of reliability, security, safety, and robustness for systems that incorporate increasingly complex ML models, and to the challenge of determining whether such systems can comply with the requirements for safety-critical systems.

Workshop on Data-Centric Dependability and Security. This workshop is focused on data-centric approaches that promote the dependability and cybersecurity of computing systems. It aims to discuss novel approaches for processing and analysing data generated by the systems as well as information gathered from open sources, leveraging from data science, machine and statistical learning techniques, and visualization.

Workshop on High-performance Computing Platforms for Dependable Autonomous Systems. This workshop focuses on the research towards the adoption of HPC hardware and software platforms in the context of safety- and security-critical applications. In particular, the scope of the workshop includes functional-safety and security requirements for HPC systems, including but not limited to non-functional aspects such as time-predictability and energy consumption.

Workshop on Safety and Security of Intelligent Vehicles. This workshop focuses on exploring the challenges and interdependencies between security, real-time, safety and certification, which emerge when introducing networked, autonomous and cooperative functionalities.

In addition to the authors, our sincere appreciation goes to the workshop chairs and the members of the Technical Program Committee of each workshop for their valuable professional service to the community. We deeply appreciate the efforts of the General co-Chairs (Pedro J. Gil-Vicente and Juan-Carlos Ruiz-Garcia), the Conference Coordinator (Karthik Pattabiraman) and the support from the DSN Steering Committee Chair/Vice-Chairs (Mohamed Kaaniche and Elmootazbellah N. Elnozahy) for their help in making DSN 2020 a great success.

We hope that you will enjoy the exciting workshop program we put together for the conference.

Domenico Cotroneo

Cristina Nita Rotaru

DSN 2020 Workshop Co-chairs