

Message from the DependSys 2021 Program Chairs

We are pleased to welcome you to the 7th IEEE International Conference DependSys 2021, held in hybrid on December 20-22 due to the COVID-19 pandemic. The DependSys 2021 conference is sponsored by IEEE, IEEE Computer Society, and IEEE Technical Committee on Scalable Computing (TCSC).

As we enter the information age, massive amounts of data are generated every day from sensors, personal profiles, social networks, IoT, businesses and the Internet, which vary in size and format and pose great challenges to the reliability of the systems we design. These systems tend to be inert, fragile, and vulnerable after a period of operation. It becomes increasingly important to effectively improve the reliability of sensor, cloud and big data systems and applications.

The technical program of DependSys 2021 consists of 8 regular and 3 short papers, selected by the program committee from 32 full submissions in response to the call for papers. This year, the acceptance rate of main conference regular papers is 25%. All submissions were reviewed by the program committee members. These high-quality submissions cover many hot research topics, including dependability and security fundamentals and technologies, dependable and secure systems, mobile sensing applications detection and tracking, dependability measurement, dependability in big data systems, software system security, big data foundation and management, and dependable and secure applications, including sensor and robot applications, big data applications, datacenter monitoring, to name a few.

First of all, we would like to thank all the program committee members for their hard work in reviewing all submitted papers. Next, we would like to extend our special thanks to the DependSys General Chairs (Stephen S. Yau, Zheng Yan, and Willy Susilo) and the Steering Committee Chairs (Jie Wu and Md Zakirul Alam Bhuiyan) for their consistent leadership and guidance; we also would like to thank the Workshop Chairs (Zhuo Liu, Shunli Zhang), and the Publicity Chair (Bocheng Ren, Xuchi Cheng), for their hard work in making DependSys 2021 a success. Furthermore, we would like to thank all the authors for submitting and presenting their exciting ideas and solutions at the virtual conference.

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