Message from the Chairs
RTCSA 2023

It is our pleasure to welcome you to the 29th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA 2023), held in Niigata, Japan. This year, we are honored that RTCSA is sponsored by IEEE, IEEE Computer Society, and IEEE Technical Committee on Real-Time Systems (TCRTS). The objective of the conference is to bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time systems and their emerging applications, including the Internet of Things (IoT) and Cyber-Physical Systems (CPS).

Overall, this year we received 59 submissions to the three technical tracks, i.e., Real-Time Systems (RTS), Embedded Systems (EMBS), and IoT, CPS, and Emerging Applications (IoT). The submissions came from 17 countries and areas all around the world. After thorough online discussions, the Program Committee selected 23 full papers for publication (equating to an acceptance ratio of 39%), as well as 5 short presentation papers. All accepted papers are organized into nine technical sessions and included in the conference proceedings. We would like to extend our appreciation to all members of the Program Committee for their outstanding efforts in both reviewing and discussing the submissions to produce an excellent program.

This RTCSA also features a Poster session. The 2-page contributions presented in this session have been evaluated by a separate committee. The accepted poster papers are also included in these proceedings. Finally, we are honored to have two world-renowned researchers: Prof. Chenyang Lu and Prof. Yan Solihin to deliver the keynote speeches at the conference.

We are very grateful to all the authors for their contributions to and participation in the conference. We thank our Program Committee members for their objective, professional evaluation and constructive comments on all submissions. A special appreciation goes to the RTCSA Steering Committee, especially the previous and the current Steering Committee Chairs, Prof. Tarek Abdelzaher and Prof. Qixin Wang, for their guidance throughout the entire conference organizing process. Without their efforts, the conference would not have been possible.

Finally, we would like to thank all authors who submitted their work to RTCSA 2023, whether it was accepted or not, for their great efforts in producing the high-quality papers we received this year. We are confident that as an attendant of RTCSA 2023, you will appreciate the excellent program and the lively discussions with leading researchers at the conference.

Welcome to Niigata!

Hiroshi Yamada and Ting He
RTCSA 2023 General Chairs

Hiroyuki Tomiyama, Nan Guan, and Sebastian Steinhorst
RTCSA 2023 Program Chairs