Message from the UIC 2022 Program Chairs

(SmartWorld/UIC/ATC/ScalCom/DigitalTwin/PriComp/Metaverse)

It is our great pleasure to welcome you to UIC 2022, the 19th IEEE International Conference on UIC, held on December 15-18, 2022. For IEEE UIC 2022, the financial sponsors are IEEE, IEEE Computational Intelligence Society and the technical sponsors are IEEE Computer Society, IEEE Technical Committee on Scalable Computing, Task Force on Cyber-Physical-Social Systems of IEEE Smart World Technical Committee, and IEEE Technical Committee on Hyper-Intelligence, with supporting of Alibaba Cloud Computing Ltd., Beijing Join-Cheer Software Co. Ltd., COSMOPlat Ecological Technology, NalingLantu (Hainan) Technology Co., Ltd., Hainan Province Computer Federation, and the Chinese Information Processing Society of China. The organizers of IEEE UIC 2022 are Hainan University, Smart World Technical Committee of IEEE Computational Intelligence Society, and St. Francis Xavier University.

Research on ubiquitous intelligence is an exciting field covering many disciplines. A series of grand challenges exist to move from the current computing services to the ubiquitous intelligent/smart things. Ubiquitous sensors, devices, networks and information are paving the way towards a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, more efficient and more enjoyable. Ubiquitous computing is to create such intelligent/smart environments, services and applications.

There are 125 regular research papers and 146 research papers, selected by the program committee among 694 full submissions from 16 countries or regions. This year, the acceptance rate of regular research papers and research papers are 18.0% and 21.0%, respectively. All submissions were reviewed by at least 3 program committee members. These high-quality submissions cover many hot research topics, including Intelligent/Smart Object and Interaction, Intelligent/Smart Environment and Application, Intelligent/Smart Systems and Services, Personalization and Social Aspects, to name a few.

First, we would like to thank all program committee members for their hard work in reviewing all submissions. Next, we would like to extend our special thanks to the UIC General Chairs Vincenzo Piuri (University degli Studi di Milano, Italy) and Jianmin Wang (Tsinghua University, China) and the Steering Chairs Laurence T. Yang (Hainan University, China) and Jianhua Ma (Hosei University, Japan) for their consistent leadership and guidance; we also would like to thank the Special Session Chairs Saiqin Long (Jinan University, China), Omer Adam (Kuwait College of Science and Technology, Kuwait), Cen Chen (Institute for Infocomm Research, Singapore), Joey Tianyi Zhou (Agency for Science Technology and Research Centre for Frontier AI Research, Singapore), Senzhang Wang (Central South University, China), Xiaoyong Li (National University of Defense Technology, China), Dongdong Huo (Institute of Information Engineering, China), Kaiwei Kong (Beijing Institute of Computer Technology and Applications, China), Guoming Tang (National University of Defense Technology, China), and Yuntian Chen (Eastern Institute for Advanced Study, China) for their hard work in making UIC 2022 a success. Furthermore, we would like to thank all the authors for submitting and presenting their exciting ideas and solutions at the conference and the IEEE Computer Society's Conference Publishing Services team for their dedicated services.

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