Preface
DCABES 2020

The 19th Distributed Computing and Applications for Business, Engineering and Science (DCABES2020) conference is one of DCABES series conferences， started in 2001 that are devoted to algorithms and architectures for parallel processing, it involves probability theory, statistics, approximation theory, convex analysis, algorithm complexity theory and so on.

Following the traditions of the previous successful DCABES conferences held in Wuxi, Wuhan, Paris (France), Greenwich (UK) , Kingston (UK), Hong Kong, Dalian, Hangzhou, Yichang, Anyang, Guiyang and Xianning. The 19th International Symposium on Distributed Computing and Applications for Business, Engineering and Science (DCABES 2020) will be held at China University of Mining and Technology, Xuzhou, China. The conference will provide an excellent international forum for sharing knowledge and results in theory, methodology and applications of Parallel, Distributed Computing. Original papers are invited on Algorithms and Applications, computer Networks, Cyber trust and security, Wireless networks and mobile Computing and Bioinformatics.

We were pleased that the DCABES 2020 conference received a great number of submissions covering a wide range of topics, such as parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, commercial components and systems, Artificial Intelligence, Numerical methods for PDEs, Intelligent Computing Optimization Algorithm and Its Application, Computer Technology and Application, etc.

All papers contained in these proceedings have been peer reviewed and carefully chosen by members of the Program Committee, Proceedings Editorial Board, and external reviewers. DCABES is now recognized as the main regular event of the world that is covering the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems. As applications of computing systems have permeated in every aspects of daily life, the power of computing system has become increasingly critical.

This conference provides a forum for academics and practitioners from countries around the world to exchange ideas for improving the efficiency, performance, reliability, security and interoperability of computing systems and applications. By promoting novel, high-quality research findings, and innovative solutions to challenging distributed computing problems, the conference seeks to advance the state-of-the-art in distributed computing.

We would like to thank all members of the Scientific Committee, the Local Organizing Committee, the Proceedings Editorial Board, and external reviewers for selecting the papers. It was indeed a pleasure to work with them and obtain their suggestions.

We are also grateful to Professor Xuesong Wang and Jason McGuiness， Saeed Amen for contributing keynote speeches to the conference. Sincere thanks are also given to the Ministry of Education (MOE) of China, National Nature Science Foundation of China (NSFC), China University of Mining and Technology, Jiangnan University, and the Easychair website.

Finally, we also want to thank Prof. Wei Fang, Prof. Jun Sun, Dr. Tao Zhang, Dr. Zhiguo Chen and Bin Ye for their efforts in conference organizing activities. Without their help and dedication this conference could not have been such a success.

Wenbo Xu, *Jiangnan University*
DCABES 2020 Chair

Xiao-Jun Wu, *Jiangnan University*
Li Ming, *China University of Mining and Technology*
DCABES 2020 Co-Chair