

## Message from the AICCSA 2019 Program Chairs

Welcome to the 16th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2019), organized in Abu Dhabi, UAE, from 3 November to 7 November 2019. As Co-Chairs of the Technical Program Committee (TPC), we are delighted to introduce this year's technical program and proceedings of AICCSA 2019.

AICCSA 2019 Conference, in collaboration with IEEE, continues its mission of covering all contemporary areas in computer systems and applications, and providing the latest results on theory, design, analysis, implementation, and application in these important and rapidly changing domains. Indeed, this edition addresses nine areas and the technical program presents high-quality papers in: 1) Artificial Intelligence and Machine Learning, 2) Semantics, Knowledge and Cyber Systems, 3) Security, Privacy and Trust, 4) IoT, IoV, IoEnergy, IoHealthcare, 5) High Performance Computing, 6) Databases and Information Systems, 7) Multimedia, Computer Vision and Image Processing, 8) Parallel and Distributed Systems, 9) Data Science, 10) Software Engineering, 11) VLSI Design and Systems.

The conference is truly international in scope and attracted submissions from 47 countries. The 476 members of the Program Committee come from 47 different countries.

We are grateful to all the authors who submitted their work to AICCSA 2019. We received 240 submissions for the Main Tracks. After a rigorous review process that involved at least two reviews, and generally three reviews, for each paper followed by TPC discussions, the committee accepted 57 regular papers, giving an acceptance rate 24% for the main track as well as 50 papers accepted for posters session. We are extremely grateful for the hard work, the insightful paper reviews, and thoughtful discussions by TPC members.

There were also two symposiums and five workshops:

- The 1st IEEE International Workshop on Blockchain and its Applications (IEEE BCA 2019)
- 2nd International Workshop on Health Informatics: Patient-Centered Solutions and Educational Approaches in the Digital Health Era (IEEE HOPE'19)
- The Third IEEE International Workshop on Automation of Cloud Configuration and Operations (IEEE ACCO 2019)
- The Third IEEE International Symposium on Social Computing and Arabic Language Processing (IEEE SCALP'2019)
- The Third IEEE International symposium on Multimedia Computing and Applications (IEEE MCA'2019)
- The Fifth IEEE International Workshop for Data Science and Computing (IEEE DSC'2019)
- The First IEEE International Workshop on Cybercrime Defense and Digital Forensics (IEEE CDD - 2019)

We would like to thank the conference steering committee, the general chairs, the organizing committee, the registration and finance committee as well as the publicity chairs for their help in putting together this technical program. We would also like to extend our thanks to track chairs as well as the program committee of each track who worked with the TPC in paper reviews. Finally, we would like to thank all submitting authors for considering AICCSA as a venue for their work.

We hope you enjoy the technical program.

**Dr. Leonardo Murta**, Universidade Federal Fluminense, Brazil

**Dr. Sami Yangui**, INSA Toulouse, France

**Dr. Moayad Aloqaily**, Gnowit Inc. Ottawa, Canada

**Dr. Faten F. Kharbat**, Al Ain University of Science and Technology, UAE

**AICCSA 2019 Program Committee Chairs**