Welcome Message from General Chairs

On behalf of the ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2014) Organizing Committee, we are pleased to welcome you to the AICCSA 2014 and the beautiful Doha, Qatar. It has been a real honor and privilege to serve as the General Chairs of this conference. AICCSA has brought together a tremendous and rich diversity of authors and speakers from universities, government and industry around the globe to share ideas and new perspectives on a wide range of advances in computer systems and their applications. AICCSA’2014 attracts a hundred of selected international prominent researchers and practitioners to present and discuss the latest advances of computer systems and their applications. We have put together a rich program with a variety of topics of interest for participants. In addition to the outstanding technical program, tutorials and workshops are being held in conjunction with AICCSA. Both are open to all participants. The conference program also includes three distinguished keynotes.

This year, the response to the conference’s call for papers has been outstanding, and we expect that the attendance will be equally impressive. Many individuals and organizations contributed to the success of this conference. The Program Committee worked diligently to select papers and speakers that met the criteria of high quality and relevance. We are grateful for all their hard work and efforts.

Special thanks to our keynote speakers. We greatly value their participations and look forward to their insightful vision and thoughts. Thanks also go to the distinguished lecturers and participants.

We would like to take this opportunity to extend our sincere gratitude for the definitive support of Qatar University and its management. Special thanks goes to the Dean of the College of Engineering at Qatar University, Dr. Rashid Al-Ammari for all the help and support he has provided to the conference.

We also would like to thank our Gold Sponsor ictQATAR and our silver sponsor Qatar Computing Research Institute (QCRI) for their great and appreciated support to make this conference possible. Also, we would like to thank all those who have contributed to the organization of this conference particularly the organizing and the program committees as well as the logistic support of the local organizing committee.

We hope that the conference will be stimulating, informative, enjoyable and fulfilling experience to all our participants.

Abdelkarim Erradi  
Qatar University, Qatar  
Conference Chair

Sherif Abdelwahed  
Mississippi State University, USA  
Conference Co-Chair
Welcome Message from Program Chairs

Welcome to IEEE/ACS International Conference on Computer Systems and Applications (AICCSA 2014). This year’s conference marks the 11th anniversary of AICCSA, which continues its progress at an excellent rate both in terms of quality and quantity. Among 260 submitted papers from 33 countries, around 42% have been accepted by the program committee.

The topics covered in the program include Cloud and Distributed Computing, High Performance Computing; Big Data, Business Intelligence, Analytics; BPM, Web Services, SOA; Interoperability, Semantic Web and Future Internet Technologies; Security, Privacy; Networking, Sensor Networks, Mobile Computing; Multimedia, Computer Vision and Image Processing; IR, Data and Knowledge Management; Natural Language Processing; Social Computing; and E-Learning, M-Learning.

We are honored to hold the conference under the patronage of Her Excellency Dr. Hessa Al Jaber Minister of Information and Communication Technologies (MICT).

One of the objectives of the conference is to provide a platform for experts to discuss and share their successes in applying advanced computing concepts in their respective fields of computer systems and science.

This year’s conference includes an outstanding technical program, distinguished keynote speeches on current development and future vision from NIST US, QCRI and Supreme Committee for Delivery & Legacy Qatar; and insightful tutorials from QCRI. The conference also offers a great opportunity to young and aspiring researchers to present their research proposals and on-going works during a dedicated PhD Symposium. Open workshops on Internet of Things and Big Data technologies were held during the pre-conference day.

In line with the conference themes that have great academic interest and commercial applications (12 Tracks with a total of 25 Sessions), AICCSA conference aimed at encouraging innovation and exchange with IT industry and market sectors. A half-day was dedicated to application presentations to follow the current developments in the IT professional/industrial fields. This year’s sessions focused on Cybersecurity and Smart Cities & Communities topics. Five innovative organizations/companies have been invited for presentations and panels: ICTQATAR, Boeing, Cisco, Meeza and Thales. Another specific session chaired by QNRF was dedicated to the presentation of invited projects’ outcome from local higher education institutions (QU, TAMU-Q and CMU-Q). This highlights Qatar national research and development excellence and innovation in ICT domain and its efforts to foster international collaborations.

Beyond its scientific and technical aspects, bringing together scholars, researchers and practitioners to share four days of stimulating and extensive exchange, AICCSA 2014 also provided an exciting opportunity to investigate the positive side of the current internationalization, which is giving a global dimension to all aspects of our lives, communities, and professions. Many participants in the conference activities are also partners within some successful projects (such as FITMAN on the application of Internet of Things).

We believe that the work done in the conference fields is of great importance and we are glad that the research papers presented in the conference will certainly encourage our students and young researchers to embark into advance technologies and applications in their studies towards the ultimate goal of benefiting humankind.

On behalf of the conference, we thank all the Authors, Track Chairs, Reviewers and Keynote Speakers for their help in achieving a great and successful conference. Our gratitude goes to H.E Dr. Hessa, Minister of Information and Communications Technology for her support and for officiating the conference, to Dr. Sheikha Abdulla Al-Misnad President of Qatar University and to Dr. Rashid Al-Ammari Dean of the College of Engineering for their continuous support.
We also take the opportunity here to express our great appreciation to the colleagues of the CSE Computer Science and Engineering department for their great help and dedication and to the conference partners for all the support they have provided.

Once again, we wish to extend our warmest welcome to everyone. Enjoy the program and your stay in Qatar!

Abdelaziz Bouras
Qatar University, Qatar
Program Chair

Zahir Tari
RMIT Melbourne, Australia
Program Co-Chair