Message from the AICCSA2011 Program Chairs

H. J. Siegel,  
Program Chair

Amr El-Kadi,  
Program Co-Chair

These are the proceedings of The Ninth ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2011), which will be held in Sharm El-Sheikh, Egypt, in December, 2011. AICCSA 2011 provides an international forum for scientists and engineers, researchers and practitioners, to exchange and disseminate the latest research advances in information technology and their applications. We welcomed papers that are theoretical, conceptual, descriptive in nature, or a survey of the state of the art. AICCSA focuses on selected topics in computer science and computer engineering; topics of interest for AICCSA 2011 include the following areas:

- Bioinformatics and Biomedical Computing
- Cloud and Grid Computing
- Computer Architecture
- Computer Networks and Security
- Energy Efficient Computing
- Information Retrieval, Database, and Data Mining
- Parallel, Distributed, and High Performance Processing
- Reconfigurable and GPU Computing
- Software Systems
- Wireless Systems and Sensor Networks

There were 125 manuscripts submitted to the conference. Each paper received at least three reviews. From these submissions, 40 will be presented as regular papers, and 9 will be presented as posters. Both regular papers and posters will have entries in these proceedings. We thank all the authors who submitted manuscripts.

We thank all of the Vice Program Chairs and Associate Vice Program Chairs for their hard work that made this conference possible. They selected the papers to include in the conference. Their names and affiliations are listed elsewhere in the front matter of this proceedings. We also thank all of the Program Committee Members for their assistance; they continue ...
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We appreciate all of the efforts of the Publications Chair, Dr. Esam El-Araby, Assistant Professor in the Department of Electrical Engineering and Computer Science, The Catholic University of America (CUA), USA. He put together all the manuscripts and front matter material to make this proceedings happen.

We are very pleased that we have three excellent keynote speakers. Dr. Frederica Darema is the Director of the Directorate for Mathematics, Information, and Life Sciences, US Air Force Office of Scientific Research (AFOSR), USA, and she will speak about “New Frontiers through Information Technologies.” Dr. Jean-Luc Gaudiot, Professor in the Department of Electrical Engineering and Computer Science, University of California – Irvine, USA, will speak about “Fighting Amdahl’s Law in Many-Core and GPU Parallel Architectures with Value Prediction.” Dr. Albert Zomaya, Chair Professor of High Performance Computing & Networking in the School of Information Technologies, The University of Sydney, Australia, will speak about “Environmentally Sustainable Large Scale Distributed Systems.”

We acknowledge the support of the conference co-sponsors, the Arab Computer Society (ACS) and the IEEE Computer Society, through its Technical Committee on Parallel Processing.

Last, but certainly not least, we acknowledge all of the dedication of the AICCSA 2011 General Chair, Dr. Tarek El-Ghazawi, Professor in the Department of Electrical and Computer Engineering, The George Washington University, USA. His leadership and ability to deal with difficult situations, and his friendship, are all appreciated.

Helping organize a conference takes a lot of time. For H. J. Siegel, much of this time came from time he would have spent with his family. Thus, he apologizes to his wife (Janet), daughter (Sky), dog (Boom), and horse (Blaze) for some missed play time. The same holds true for Amr El-Kadi, he would thus like to thank his wife (Noran) and his kids (Menna, Ahmed, Nour, and Samy) for their understanding and support.

**Program Chair:**
H.J. Siegel, Colorado State University, USA

**Program Co-Chair:**
Amr El-Kadi, The American University in Cairo, Egypt

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