

Message from the General Chairs

DASC 2013

Welcome to the 11th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2013) sponsored by IEEE Computer Society, held on 21-22 December 2013, in Chengdu, Sichuan, China. On behalf of the Organizing Committee of DASC 2013, we would like to express to all of participants our sincere and warm welcome in Chengdu!

As computer systems become increasingly large and complex, their Dependability, Security and Autonomy play critical role at supporting next-generation science, engineering, and commercial applications. These systems consist of heterogeneous software/hardware/network components of changing capacities, availability, and in varied contexts. They provide computing services to large pools of users and applications, and thus are exposed to a number of dangers such as accidental/deliberate faults, virus infections, malicious attacks, illegal intrusions, and natural disasters etc. As a result, too often computer systems fail, become compromised, or perform poorly and therefore untrustworthy. Thus, it remains a challenge to design, analyze, evaluate, and improve the dependability and security for a trusted computing environment. Trusted computing targets computing and communication systems as well as services that are autonomous, dependable, secure, privacy protect-able, predictable, traceable, controllable, assessable and sustainable.

The scale and complexity of information systems evolve towards overwhelming the capability of system administrators, programmers, and designers. This calls for the autonomic computing paradigm, which meets the requirement of self-management by providing self-optimization, self-healing, self-configuration, and self-protection. As a promising means to implement dependable and secure systems in a self-managing manner, autonomic computing technology needs to be further explored. On the other hand, any autonomic system must be trustworthy to avoid the risk of losing control and retain confidence that the system will not fail. Trusted and autonomic computing and communications need synergistic research efforts covering many disciplines, ranging from computer science and engineering, to the natural sciences to the social sciences. It requires scientific and technological advances in a wide variety of fields, as well as new software, system architectures, and communication systems that support the effective and coherent integration of the constituent technologies.

DASC 2013 brings together computer scientists, industrial engineers, and researchers to discuss and exchange experimental and theoretical results, novel designs, work-in-progress, experience, case studies, and trend-setting ideas in the areas of dependability, security, trust and/or autonomic computing systems. The financial/technical sponsorship from IEEE Computer Society, Technical Committee on Scalable Computing (TCSC), and University of Electronic Science and Technology of China (UESTC). DASC 2013 is the conference event following DSAC 2012 (December 2012, Changzhou, China) after the merger of the successful DASC symposium series previously held as RAMPDS 2005 (July 2005, Fukuoka, Japan), DASC 2006 (September 2006, Indianapolis, USA), DASC 2007 (September, 2007, Columbia, MD, USA), and the successful SecUbiq symposium series, previously held as SecUbiq 2005 (December 2005, Nagasaki, Japan), SecUbiq 2006 (August 2006, Seoul, Korea), SecUbiq 2007 (December 2007, Taipei, Chinese Taipei) and SecUbiq 2008 (December 2008, Shanghai, Shanghai), DASC 2009 (December 2009, Chengdu, China).

DASC 2013 is held jointly with the 11th IEEE International Conference on Pervasive Intelligence and Computing (PCom 2013), the 11th IEEE International Conference on Embedded Computing (EmbeddedCom 2013), and the 13th IEEE International Conference on Scalable Computing and Communications (ScalCom 2013). DASC 2013 has 23 papers accepted. Each paper was peer reviewed by at least three program committee members. We wish to acknowledge the authors for choosing DASC 2013 as the forum to present their research. The final decisions have been made after a rigorous peer

review process. We gratefully thank the Program Committee members and additional reviewers that contributed their valuable time and expertise to provide professional and quality reviews under a very tight schedule.

We sincerely appreciate the constant support and pertinent advice from the General Chairs and the Steering Chairs, without which DASC 2013 could not have been organized in an effective and efficient manner. We are also deeply grateful to the Program Chairs, the Publicity Chairs, the International Advisory Committee, and the Local Chair for their strong support and hard work, which are essential to the success of DASC 2013. It is a great pleasure to work with such an excellent team. We would also express our gratitude to Web and System Management Chair for his efficient assistance in managing the web-based submission and reviewing system. Last but not least, we would like to greatly thank the DASC 2013 local organizing team.

Finally, we thank all of you for participating in DASC 2013, and hope you find the conference stimulating and interesting for your research and professional activities.

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General Chairs of DASC 2013