The 2nd IEEE International Symposium on Dependable, Autonomic and Secure Computing (DASC'06)

September 29-October 1, 2006

Indiana University, Purdue University, Indianapolis, Indiana, USA

http://www.cs.iupui.edu/DASC06/

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COMMITTEES

The DASC06 committees include leading researchers from academia and industry. The list is available at the workshop web site.

PUBLICATION

Accepted papers will appear in a IEEE proceeding to be indexed by SCI and EI. Selected papers will be published in a special issue of *Journal of Autonomic and Trusted Computing*. Another set of high quality papers will be published in an edited book published by IDEA Publishing Group, USA.

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CALL FOR PAPERS

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.

This Symposium is to bring 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 area of either dependability, security or autonomic computing systems. Topics of interest include, but are not limited to:

- Autonomic Computing and Communications
- Dependability Models and Evaluations
- Security Models and Quantifications
- Security, Dependability and Autonomic issues in Ubiquitous Computing
- Grid Computing with Autonomic and Trusted Environment
- Security and Privacy
- Autonomic Computing Theory, Models and Architectures.
- Reliable and Dependable Systems
- Self-improvement in Dependability,
- Self-protection and intrusion-detection in Security
- Context-aware Access Control
- Self-healing, Self-protecting and Fault-tolerant Systems
- Software and Hardware Reliability, Verification and Testing
- Sensing, Monitoring and Measurements for Self-managing Systems
- Human Interaction with Trusted and Autonomic Computing Systems
- Applications, Real Projects, Reports in Autonomic, Dependable or Secure Systems

PAPER SUBMISSIONS

Full papers (up to 8 pages) are invited on a wide variety of topics (not limited to the above list). All manuscripts will be reviewed on originality, technical strength, significance, quality of presentation, and relevance to the Symposium. Authors should submit full papers electronically (PDF or postscript) via the electronic submission system using IEEE CS Proceedings format. More information is available at **http://www.cs.iupui.edu/DASC06/** .

IMPORTANT DATES

Submission deadline: April 30, 2006
Notification of acceptance: May 30, 2006
Final manuscript due: July 1st, 2006
Symposium: September 29-October 1, 2006