

The 3rd International Conference on Autonomic and Trusted Computing (ATC-06)

<http://grid.hust.edu.cn/atc06>



Organized by Huazhong Univ. of Sci. and Tech. (HUST)
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In Cooperation with the IEEE Computer Society (Applying)
Wuhan and Three Gorges, China, Sept. 3-6, 2006



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See ATC-06 web site: <http://grid.hust.edu.cn/atc06>

Further questions, please contact with

ATC06 Secretariat: atc06@hust.edu.cn
Or Chairs

Prof. Hai Jin (hjin@hust.edu.cn)
Prof. Laurence T. Yang (lyang@stfx.ca)
Prof. Manish Parashar (parashar@caip.rutgers.edu)
Prof. Kouichi Sakurai (sakurai@csce.kyushu-u.ac.jp)

Computing systems including hardware, software, communication and networks are growing with ever increasing scale and heterogeneity, and becoming overly complex. Such the complexity is getting more critical along with ubiquitous permeation of embedded devices and other pervasive systems. To cope with the growing and ubiquitous complexity, autonomic computing focuses on self-manageable computing and communication systems that perform self-awareness, self-configuration, self-optimization, self-healing, self-protection and other self-ware operations to the maximum extent possible without human intervention or guidance.

Any autonomic system must be trustworthy to avoid the risk of losing control and retain confidence that the system will not fail. Trust and/or distrust relationships in the Internet and pervasive infrastructure based global computing exist universally in the course of dynamic interaction and cooperation of various users, systems and services. Trusted computing targets computing and communication systems as well as services that are available, predictable, traceable, controllable, assessable, sustainable, dependable, persist-able, security/privacy protect-able, etc.

A series of grand challenges exist to achieve practical self-manageable autonomic systems with truly trustworthy services. ATC-06 addresses the most innovative research and development in these challenging areas and includes all technical aspects related to autonomic and trusted computing and communication. ATC-06 as a conference comes out of the First Int'l Workshop on Trusted and Autonomic Ubiquitous and Embedded Systems (TAUES-05, Japan, Dec.), and the Int'l Workshop on Trusted and Autonomic Computing Systems (TACS-06, Austria, April).

Topics include but are not limited to the following:

- **Autonomic Computing Theory and Models**
Nervous/organic model, reaction, pro-action, control, persistence, negotiation, cooperation, etc.
- **Autonomic Architectures and Systems**
Autonomic elements, relationship, architecture, framework, middleware, prototype, system, etc.
- **Autonomic Components and Modules**
Autonomic component/module such as memory, storage, database, device, server, proxy, OS, etc.
- **Autonomic Communication and Services**
Autonomic network, ad hoc/sensor net, grid, P2P, web service, semantics, agent, transaction, etc.
- **Autonomic System Tools and Interfaces**
Tool/interface for autonomic system development, test, monitoring, assessment, supervision, etc.
- **Trust Models and Specifications**
Models and semantics of trust, distrust, mistrust, over-trust, cheat, risk, reputation, reliability, etc.
- **Trust-related Security and Privacy**
Trust-related secure architecture, framework, policy, intrusion detection/awareness, protocols, etc.
- **Trusted Reliable and Dependable Systems**
Fault-tolerant systems, hardware redundancy, robustness, survivable systems, failure recovery, etc.
- **Trustworthy Services and Applications**
Trustworthy Internet, web, grid or P2P e-services, mobile/pervasive services, novel applications, etc.
- **Trust Standards and Non-Technical Issues**
Trust standards and issues related to personality, ethics, sociology, culture, psychology, economy, etc.

IMPORTANT DATES

Submission Deadline:	March 10, 2006
Authors Notification:	May 10, 2006
Final Manuscript Due:	June 10, 2006

ELECTRONIC SUBMISSION

Prepare your paper with free styles not more than 15 pages in PDF file. Submit your paper(s) at the ATC-06 web site:

<http://grid.hust.edu.cn/atc06>

SUBMISSION NOTIFICATION

When you submit a paper, please send an e-mail to atc06@hust.edu.cn with the following information: paper ID number (assigned by the submission system), paper title, author's name, postal address, email address, abstract, and keywords.

PAPER PUBLICATION

Accepted papers will be published by IEEE CS Proceedings to be indexed by SCI and EI. Distinguished papers, after further revisions, will be published in special issues of the Journal of Autonomic and Trusted Computing (JoATC), and the International Journal of High Performance Computing and Networking (IJHPCN).