

The 6th International Conference on Autonomic and Trusted Computing (ATC-09)

- Bring Safe, Self-x and Organic Computing Systems into Reality -

<http://www.itee.uq.edu.au/~atc09/>

Technically co-sponsored by the IEEE and the IEEE Computer Society Technical
Committee on Scalable Computing

Brisbane, Australia, 7-9 July, 2009

Co-located with UIC-09 (<http://www.itee.uq.edu.au/~uic09/>)



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See ATC-09 website: <http://www.itee.uq.edu.au/~atc09/>

Computing systems including hardware, software, communication, and networks are growing towards an ever increasing scale and heterogeneity, becoming overly complex. Such complexity is getting even more critical with the ubiquitous permeation of embedded devices and other pervasive systems. To cope with the growing and ubiquitous complexity, Autonomic Computing (AC) focuses on self-manageable computing and communication systems that exhibit self-awareness, self-configuration, self-optimization, self-healing, self-protection and other self-x operations to the maximum extent possible without human intervention or guidance. Organic Computing (OC) additionally addresses adaptivity, robustness, and controlled emergence as well as nature-inspired concepts for self-organization.

Any autonomic or organic 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 in pervasive infrastructures are key factors to enable dynamic interaction and cooperation of various users, systems, and services. Trusted/Trustworthy Computing (TC) aims at making computing and communication systems as well as services available, predictable, traceable, controllable, assessable, sustainable, dependable, persistable, security/privacy protectable, etc.

A series of grand challenges exists to achieve practical autonomic or organic systems with truly trustworthy services. Started in 2005, the series of ATC conferences has been held at Nagasaki, Vienna, Three Gorges (China), Hong Kong and Oslo. ATC-09 will include a highly selective program of technical papers, accompanied by workshops, panel discussions and keynote speeches. Established as a premier venue in the area of autonomic and trusted computing, ATC-09 will offer a forum for researchers to exchange ideas and experiences in the most innovative research and development in these challenging areas and includes all technical aspects related to autonomic/organic computing (AC/OC) and trusted computing (TC). Topics include but are not limited to the following:

- AC/OC Theory and Models

Models, negotiation, cooperation, competition, self-organization, emergence, verification etc.

- AC/OC Architectures and Systems

Autonomic elements & their relationship, frameworks, middleware, observer/controller architectures, etc.

- AC/OC Components and Modules

Memory, storage, database, device, server, proxy, software, OS, I/O, etc.

- AC/OC Communication and Services

Networks, self-organized net, web service, grid, P2P, semantics, agent, transaction, etc.

- AC/OC Tools and Interfaces

Tools/interfaces for AC/OC system development, test, monitoring, assessment, supervision, etc.

IMPORTANT DATES

Submission Deadline: January 19, 2009

Authors Notification: March 16, 2009

Final Manuscript Due: April 13, 2009

WORKSHOPS

The ATC'09 Organizing Committee invites proposals for one-day workshops affiliated with the conference and addressing research areas that are related to the conference. The workshop proceedings will be published by IEEE. Submit workshop proposals to ATC'09 workshops chairs via email (wsusilo@uow.edu.au and cc to zbo@cs.uccs.edu) by **15 October 2008**.

PAPER SUBMISSION

The information on how to submit papers will be soon given on the conference webpage: <http://www.itee.uq.edu.au/~atc09/>

PAPER PUBLICATION

Accepted main conference papers are planned to be published by Lecture Notes in Computer Science (LNCS, EI indexed). At least one author of each accepted paper is required to register and present their work at the conference, otherwise the paper will not be included in the proceedings. The workshop proceedings will be published by IEEE (EI indexed). Selected papers, after extension and further revisions, will be published in special issues of prestigious journals.