

## CALL FOR PAPERS

(Submission Due Extended to June 30, 2005)

### The First International Workshop on Trusted and Autonomic Ubiquitous and Embedded Systems (TAUES'05)

Nagasaki, Japan, 6-9 December 2005 <http://www.cs.iupui.edu/~ydai/TAUES05/TAUES05.htm>

in conjunction with 2005 IFIP Conference on Embedded and Ubiquitous Computing (EUC'2005)  
<http://euc05.euc-conference.org/>

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heterogeneity and unpredictability by being decentralized, embedded, context aware, adaptive, ubiquitous and resilient. This new era is characterized by self-*X* properties such as self-defining, self-configuring, self-optimizing, self-protecting and self-healing as well as context aware and anticipatory.

This workshop is to bring together computer scientists, industrial engineers and researchers to discuss and exchange experimental or theoretical results, novel designs, work-in-progress, experience, case studies, and trend-setting ideas in the area of trusted and autonomic ubiquitous and embedded systems. The accepted papers will be published by Springer LNCS as part of the EUC-05 proceedings

#### PURPOSE AND SCOPE

Embedded and ubiquitous computing is emerging rapidly as an exciting new paradigm to provide computing and communication services all the time, everywhere. Its systems are now pervading every aspect of life to the point that they are hidden inside various appliances or can be worn unobtrusively as part of clothing and jewelry. To achieve this level of invisible ubiquitous and pervasive computation and communication, we will need to study trusted and self-managing infrastructure. As such, it is necessary to develop new *trustworthy* software, *selfware* technologies, and *self-X* properties to effectively and inconspicuously manage these emerging embedded and ubiquitous systems. Trustworthy computing, which is essential to embedded and ubiquitous systems, is to address all issues relating to security, privacy, reliability, and information integrity. One of the most promising paradigms for self-managing systems is that of Autonomic Computing which is inspired by nature and biological systems (such as the autonomic nervous system) that have evolved to cope with the challenges of scale, complexity,

#### Topics of interest include (but are not limited to)

- Design for trustworthy Ubiquitous Computing
- Security in Embedded and Ubiquitous Comp.
- Reliability Models, Analysis and Improvement
- Autonomic enhancement of Reliability/Security
- Theories of autonomic computing design
- Self-*X* properties & Autonomic agents for EUC
- Tools to design/model/evaluate selfware
- Embedded Trusted & Autonomic Architectures
- TAUES Applications/experiments
- Economic, biological and social models used for TAUES
- Sensing, monitoring and measurements
- Human factors within TAUES
- Trusted Communications in Ubiquitous Comp.

#### IMPORTANT DATES:

Paper Submission Due: **June 30, 2005**  
Notification of Acceptance: **August 15, 2005**  
Final Manuscript Due: **September 15, 2005**

#### PAPER SUBMISSION:

Authors should email their paper in PDF at most 25 pages using Springer's LNCS format to  
R. Sterritt ([r.sterritt@ulster.ac.uk](mailto:r.sterritt@ulster.ac.uk)) Autonomic Computing  
X. Zou ([xkzou@cs.iupui.edu](mailto:xkzou@cs.iupui.edu)) Security & Embedded Sys.  
X. Qin ([xqin@cs.nmt.edu](mailto:xqin@cs.nmt.edu)) Reliability & Ubiquitous Comp.  
Y. Dai ([ydai@cs.iupui.edu](mailto:ydai@cs.iupui.edu)) All above topics and Others

**For further questions please contact:** Yuanshun Dai, TAUES-05 General Co-Chair ([ydai@cs.iupui.edu](mailto:ydai@cs.iupui.edu)).

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