

Joint Call for Papers (co-located conferences)



Main website, <http://conf.kyusan-u.ac.jp/>
Hosted by: Kyushu Sangyo University, Fukuoka, Japan
September 04~07, 2012



***The 9th IEEE International Conference on Ubiquitous Intelligence and Computing *
(UIC 2012, <http://conf.kyusan-u.ac.jp/uic2012/>)**

***The 9th IEEE International Conference on Autonomic and Trusted Computing*
(ATC 2012, <http://conf.kyusan-u.ac.jp/atc2012/>)**

***The 12th International Conference on Algorithms and Architectures for Parallel Processing*
(ICA3PP-12, <http://anss.org.au/ica3pp12/>)**

UIC/ATC/ICA3PP 2012

IMPORTANT DATES

Workshop Proposals Due/Notification: Ongoing as received

Paper Submission Deadline: May 15, 2012 (HARD DEADLINE)

Demo/Exhibit Paper Submission Deadline: May 15, 2012

Authors Notification: June 15, 2012

Final Manuscript Due: June 28, 2012

Workshops in conjunction with UIC 2012:

The 2012 International Workshop on Ubiquitous Service Models and Applications (USMAP-2012)

The 2012 International Workshop on Ubiquitous Information Security Techniques and Applications (UISTA-2012)

The 4th International Workshop on Wireless Network Algorithm and Theory (WiNA-2012)

The 2012 International Workshop on Embedded Intelligence and Smart Systems (WEISS-2012)

The 2012 International Workshop on Ubiquitous Information Processing and Management (UIPM-2012)

The 2012 International Workshop on Green and Pervasive Software (GreenPS-2012)

The 2012 International Workshop on Infrastructure, Technologies and Applications for Distributed Data Collection, Processing, and Dissemination (DDCPD-2012)

Symposium in conjunction with ATC 2012:

The Third International Symposium on Multidisciplinary Emerging Networks and Systems (MENS2012)

Workshop in conjunction with ICA3PP 2012:

The 1st International Workshop on Cognitive Distributed Computing and Networking (CDCN 2012)

NOTE: The accepted papers in the UIC 2012 and ATC 2012 main conferences, its related workshops, the demo/exhibit papers will be published by IEEE-CS CPS (IEEE-DL and EI indexed).

Accepted papers in ICA3PP 2012 and its related workshops will be published by Springer-LNCS (EI Indexed).

//////////////// JOURNAL SPECIAL ISSUES //////////////////

UIC 2012 Journal Special Issues:

International Journal of Communication Systems (Wiley) (SCI, EI)

Future Generation Computer Systems (Elsevier) (SCI, EI)

Journal of Systems Architecture (Elsevier) (SCI, EI)

Automated Software Engineering (Springer) (SCI, EI)

Journal of Internet Technology (SCI, EI)

Information System Frontiers (Springer) (SCI, EI)

ATC 2012 Journal Special Issues:

Journal of Computing (Springer), International Journal of Autonomic Computing (IJAC)

International Journal of Adaptive, Resilient and Autonomic Systems (IJARAS)

Journal of Computer and System Sciences (Elsevier) (MENS 2012 Symposium)

ICA3PP 2012 Journal Special Issues:

Concurrency and Computation (Wiley, SCI and EI Indexed, Impact Factor: 0.907)

Future Computer Generation Systems (Elsevier, SCI and EI Indexed, Impact Factor: 2.365)

Sponsors:

The Institute of Electrical and Electronics Engineers (IEEE), The IEEE Computer Society (IEEE-CS)

The IEEE Technical Committee on Scalable Computing (IEEE-TCSC), The Fukuoka Convention and Visitors Bureau (FCVB) (Pending)

In cooperation with:

The Information Processing Society of Japan (IPSJ), The IPSJ Special Interest Group on Distributed Processing Systems (SIG-DPS)

The IPSJ Special Interest Group on Mobile Computing and Ubiquitous Communication (SIG-MBL)

The IPSJ Special Interest Group on Computer Security (SIG-CSEC) (Pending)

The IPSJ Special Interest Group on Computer Security (SIG-CSEC), The IEICE Special Interest Group on Dependable Computing (SIG-DC)

The Institute of Electronic, Information, and Communication Engineers (IEICE)

**IMPORTANT: For more information and submission details, visit the corresponding conference websites and related links.
Scope and topics of each conference can be found in the subsequent pages.**

The 9th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC 2012)

- Building Smart Worlds in Real and Cyber Spaces -

<http://conf.kyusan-u.ac.jp/uic2012>

September 04-07, 2012, Fukuoka, Japan

Hosted by Kyushu Sangyo University, Fukuoka, Japan

Co-located with ATC 2012, ICA3PP-2012



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Technical Program Committee

See the UIC 2012 website,

<http://conf.kyusan-u.ac.jp/uic2012/>

Ubiquitous sensors, devices, networks and information are paving the way towards a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, the physical spaces where people interact like the workplaces and homes, could become more efficient, safer and more enjoyable. Ubiquitous computing, or pervasive computing, uses these many "smart things or u-things" to create smart environments, services and applications.

A smart thing can be endowed with different levels of intelligence, and may be context-aware, active, interactive, reactive, proactive, assistive, adaptive, automated, sentient, perceptual, cognitive, autonomic and/or thinking. Research on ubiquitous intelligence is an emerging research field covering many disciplines. A series of grand challenges exist to move from the current level of computing services to the smart world of adaptive and intelligent services. Started in 2005, the series of UIC conferences has been held in Taipei, Nagasaki, Three Gorges (China), Hong Kong, Oslo, Brisbane, Xi'an, and Banff. UIC 2012 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 ubiquitous intelligence and computing, UIC 2012 will offer a forum for researchers to exchange ideas and experiences in developing intelligent/smart objects, environments and systems.

The UIC 2012 topics include but are not limited to the following:

1. Ubiquitous Intelligent/Smart Systems

- * Sensor, Ad Hoc, Mesh & P2P Networks
- * Social Networking and Computing
- * Knowledge Representation and Ontology
- * Wearable, Personal and Body Area Systems
- * Middleware and Intelligent Platforms
- * Intelligent Services and Architectures
- * Agents, Swarm and Context-aware Systems
- * Nature-inspired Intelligent Systems

2. Ubiquitous Intelligent/Smart Environments

- * Smart Room, Home, Office, Laboratory
- * Smart Shop, Hospital, Campus, City, etc.
- * Smart Vehicle, Road, Traffic & Transportation
- * Healthcare and Elder/Child Care Services
- * Pervasive/Ubiquitous Media and Services
- * Pervasive Learning, Games, Entertainment
- * Other Intelligent/Smart Applications

3. Ubiquitous Intelligent/Smart Objects

- * Electronic Labels, Cards, E-Tags and RFID
- * Embedded Chips, Sensors & Actuators
- * MEMS, NEMS, Micro & Biometric Devices
- * Smart Appliances and Wearable Devices
- * Material, Textile, Cloth, Furniture, etc.
- * Embedded Software and Agents
- * Interaction to Smart Objects/Devices
- * Smart Object OS and Programming

4. Personal/Social/Physical Aspects

- * Real/Cyber World Modeling and Semantics
- * User/Object Identity and Activity Recognition
- * Adaptive User Interfaces and Tools
- * Security, Privacy, Safety and Legal Issues
- * Emotional, Ethical and Psychological Factors
- * Implication & Impact of Ubiquitous Intelligence
- * Relations between Real and Cyber Worlds

IMPORTANT DATES

Paper Submission Deadline: May 15, 2012 (HARD DEADLINE)

Authors Notification: June 15, 2012

Final Manuscript Deadline: June 28, 2012

WORKSHOPS/DEMOS/EXHIBITS

The UIC 2012 Organizing Committee invites proposals for workshops and demos/exhibits affiliated with the conference and addressing research areas related to the conference. Accepted workshop/demo papers will be included in the proceedings published by IEEE CPS Press. Click the following links for submission details/deadlines. For workshop proposals, <http://conf.kyusan-u.ac.jp/uic2012/wsprop/> For demo/exhibit proposals, <http://conf.kyusan-u.ac.jp/uic2012/demoprop/>

PAPER SUBMISSION

Main conference papers need to be prepared according to the IEEE CPS format, 7 to 8 pages, and submitted in PDF format via the UIC 2012 submission site:

<http://cse.stfx.ca/~uic2012/sub/>

PAPER PUBLICATION

Accepted conference papers will be published by IEEE CPS (IEEE-DL and 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.

Best Paper Awards will be presented to high quality papers. Selected papers, after further extensions and revisions, will be published in special issues of prestigious journals (IJCS, IF=0.226; JIT, IF=0.448, JSA, IF=0.667).

The 9th IEEE International Conference on Autonomic and Trusted Computing (ATC 2012)

- Bring Safe, Self-x and Organic Computing Systems into Reality -
<http://conf.kyusan-u.ac.jp/atc2012/>

Kyushu Sangyo University, Fukuoka, Japan, September 04-07, 2012
Co-located with UIC 2012, ICA3PP-2012



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See the ATC 2012 website, <http://conf.kyusan-u.ac.jp/atc2012/>

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, persistent, 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, Oslo, Brisbane, Xian, and Banff. ATC 2012 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 2012 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, institutional architectures, etc.

- AC/OC Components and Modules

Multi-core CPU, memory, storage, database, device, server, proxy, software, OS, I/O, etc.

- AC/OC Communication and Services

Networks, self-organized net, web service, P2P, grid, EaaS, cloud, etc.

- AC/OC Tools and Interfaces

Tools/interfaces for AC/OC 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, trust-adaptive agents and communities, etc.

- Trusted Reliable and Dependable Systems

Fault-tolerant systems, hardware redundancy, robustness, survivable systems, failure recovery, etc.

- Trustworthy Services and Applications

Trustworthy Internet/web/P2P/grid/cloud services, secure mobile 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

Papers Submission Deadline: May 15, 2012 (HARD DEADLINE)
Authors Notification: June 15, 2012
Final Manuscript Deadline: June 28, 2012

WORKSHOPS/DEMOS/EXHIBITS

The ATC 2012 Organizing Committee invites proposals for workshops/demos/exhibits affiliated with the conference and addressing research areas related to the conference. Accepted workshop/demo papers will be included in the proceedings published by IEEE CPS Press. Click the following links for submission details/deadlines.

For workshop proposals: <http://conf.kyusan-u.ac.jp/atc2012/wsprop/>

For demo/exhibit proposals: <http://conf.kyusan-u.ac.jp/atc2012/demoprop/>

PAPER SUBMISSION

Main conference papers need to be prepared according to the IEEE CPS format, 7 to 8 pages, and submitted in PDF format via the ATC 2012 submission site: <http://cse.stfx.ca/~atc2012/sub/>

PAPER PUBLICATION

Accepted main conference papers will be published by IEEE CPS (IEEE-DL 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.

Best Paper Awards will be presented to high quality papers. Selected papers, after further extensions and revisions, will be published in special issues of prestigious journals (Computing (Springer), IJAC (Inderscience), IJARAS (IGI)).

The 12th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP-12)



<http://anss.org.au/ica3pp12/>

Technically Sponsored by IEEE Technical Committee on Scalable Computing

Fukuoka, Japan, September 04-07, 2012

Hosted by Kyushu Sangyo University, Fukuoka, Japan

Co-located with ATC- 2012, UIC-2012



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Program Committee

Please see ICA3PP-12 website at
<http://anss.org.au/ica3pp12>

General Information

ICA3PP-12 is the 12th in this series of conferences started in 1995 that are devoted to algorithms and architectures for parallel processing. ICA3PP is now recognized as the main regular event of the world that covers the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems. As applications of computing systems have permeated in every aspects of daily life, the power of computing system has become increasingly critical. This conference provides a forum for academics and practitioners from countries around the world to exchange ideas for improving the efficiency, performance, reliability, security and interoperability of computing systems and applications.

ICA3PP-12 will be run in technical co-sponsorship (pending) with the IEEE and the IEEE Computer Society Technical Committee on Scalable Computing. ICA3PP-2012 will be co-located with UIC-2012 and ATC-2012 conferences.

Important Dates

Workshop Proposals deadline: Ongoing as received
Authors Notification: June 15, 2012

Paper Submission Deadline: May 15, 2012
Final Manuscript Deadline: June 28, 2012

Topics

- Cluster, Distributed & Parallel Operating Systems and Middleware
- Cloud, Grid, and Services Computing
- Reliability and Fault-tolerant Computing
- Multi-core Programming and Software Tools
- Distributed Scheduling and Load Balancing
- High-performance Scientific Computing
- Parallel Algorithms
- Parallel Architectures
- Parallel and Distributed Databases
- Parallel I/O Systems and Storage Systems
- Parallel Programming Paradigms
- Performance of Parallel & Distributed Computing Systems
- Resource Management and Scheduling
- Tools and Environments for Parallel & Distributed Software Development
- Software and Hardware Reliability, Testing, Verification and Validation
- Security, Privacy, and Trusted Computing
- Self-healing, Self-protecting and Fault-tolerant Systems
- Information Security In Internet
- Multimedia in Parallel Computing
- Parallel Computing in Bioinformatics
- Dependability Issues in Computer Networks and Communications
- Dependability Issues in Distributed and Parallel Systems
- Dependability Issues in Embedded Parallel Systems
- Industrial Applications
- Scientific Applications

Submission Guidelines

Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Papers must be clearly presented in English, must not exceed 15 pages in LNCS format, including tables, figures, references and appendixes, with Portable Document Format (.pdf). Papers will be selected based on their originality, significance, relevance, and clarity of presentation assessed by at least three reviewers. Submission of a paper should be regarded as a commitment that, should the paper be accepted, at least one of the authors will register and attend the conference to present the work.

The publication will be **Springer Lecture Notes in Computer Science (EI indexed)**. Best Paper Awards will be presented to high quality papers. Selected best papers will be published in some high quality international journals: Concurrency and Computation: Practice and Experience (Wiley) and Future Generation Computer Systems (Elsevier), all SCI and EI indexed.