

The 8th IEEE International Conference on Pervasive Intelligence and Computing (PICom-09)

December 12-14, 2009, Chengdu, China

Sponsored by IEEE CS TCSC and IEEE CIS TFUIC & TFATC

www.cs.iupui.edu/~ydai/Picom09/

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See the PICom-09 web site

PUBLICATION

Accepted papers will be published by IEEE CS Press (EI-indexed) and selected papers will be published in special issues of some top SCI-indexed journals.

IMPORTANT DATES

Workshop Proposal Due: July 15, 2009
Submission Deadline: August 15, 2009
Notification of Acceptance: September 30, 2009
Final Manuscript Due: October 15, 2009

FURTHER CONTACTS

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CALL FOR PAPERS

Over the last fifty years, computational intelligence has evolved from logic-based artificial intelligence, nature-inspired soft computing, social-oriented agent technology to cyber-physical integrated ubiquitous intelligence towards Pervasive Intelligence (PI). The International Conference on Pervasive Intelligence and Computing is intended to cover all kinds of these intelligent paradigms as well as their applications in various pervasive computing. PICom-09 is the next event, in a series of highly successful International Conferences on Pervasive Intelligence and Computing (PICom), previously held as PCC-03 (Las Vegas, USA, June 2003), PCC-04 (Las Vegas, USA, June 2004), PSC-05 (Las Vegas, USA, June 2005), PCAC-06 (Vienna, Austria, April 2006), PCAC-07 (Niagara Falls, Canada, May 2007), IPC-07 (Jeju, Korea, December 2007), IPC-08 (Sydney, Australia, December 2008). Topics are divided into 8 tracks, and include but are not limited to the following:

T1. Artificial Intelligence & Knowledge Computing

AI models & theories, ontology, machine learning, natural language processing, computer vision, robots, game theory, expert system, knowledge discovery and management, reasoning, learning rule, distributed AI, tools, applications, etc.

T2. Nature-inspired Intelligence & Soft Computing

Nature-based models & theories, probabilistic computing, fuzzy logic, neural networks, genetic algorithm, evolutionary computing, chaotic system, collected intelligence, swarm computing, information fusion, biologic computing, tools, applications, etc.

T3. Social Intelligence & Agent-based Computing

Agent models & theories, agent language, agent negotiation & cooperation, multi/massive agents, Web agents, agent-based systems, ethic computing, emotional computing, social computing, social networks, tools, applications, etc.

T4. Ubiquitous Intelligence & Cyber-Physical Computing

Cyber/Web intelligence, physical things' intelligence, ambient intelligence (AmI), smart object, space & environment, cyber-physical integrated system, activity recognition, contextual information models & semantics, context-aware applications, etc.

T5. Embedded Hardware, Software & Systems

Pervasive computers and devices, wearable computers, RFIDs, sensor technology, embedded computer architecture, embedded software and middleware, system-on-chip, system test, power management, middleware, tools, applications, etc.

T6. Pervasive Networks & Communications

Broadband network, cross-layer protocol, sensor network, wireless network, ad hoc network, wearable network, PAN, BAN, P2P network, power-aware communication, communication middleware, intelligent traffic/spectrum management, etc.

T7. Pervasive Services & Systems

Web service, semantic Web, P2P service, trusted service, service safety and assurance, resource virtualization, EaaS including SaaS, IaaS, PaaS, Grid and Cloud, QoS (quality of service), service-oriented architecture, systems, applications, etc.

T8. Multimedia Technologies & Applications

Multimedia modeling and semantics, pervasive multimedia database and management, pervasive media privacy and protection, VR/AR, intelligent multimedia sensing, processing, coding, indexing, mining, analyses, interfaces, tools, systems, applications, etc.

WORKSHOP PROPOSAL

In conjunction with the PICom-09, several workshops will be held. Please submit a workshop proposal including call for papers, organizing committee, important dates, short bio of the organizers to the PICom-09 workshop chairs (picom09@googlegroups.com) before July 15. Proceedings of PICom-09 workshops will be published by IEEE CS Press.

PAPER SUBMISSIONS

Prepare your paper with free styles not more than 15 pages in PDF file. Submit your paper at the PICom-09 submission site: <http://cse.stfx.ca/~picom09/sub/>. Each submission should be regarded as an undertaking that, if the paper be accepted, at least one of the authors must attend the conference to present the work in order for the paper to be included in the IEEE Digital Library.