

2008 International Workshop on Context-Aware Pervasive Communities: Infrastructures, Services and Applications (CAPC 2008)

Held in Conjunction with Pervasive 2008

Sponsored by the EII Taskforce on Context-Aware Computing

19 May 2008, Sydney Australia

Workshop Aims & Scope:

The pervasive computing vision calls for computation, sensing and networking to be ubiquitous, whether with users or embedded into everyday living environments. A result of ubiquitous networking and computational ability is to form digital boundaries around entities. As such, communities, whether geographically transcending or based at a place, formed with a priori agreements or ad hoc via simply a collocation of interacting devices members, transient or long-living, can form a digital matrix or space in which its participants interact, provide services or utilize services.

Participants of such communities may be aware of the context and situations of individuals, the collective, or subgroups. Groups may be aware of other groups, or individuals being aware of groups or groups being aware of particular individuals. The levels of awareness, what one wants others to be aware of and what one wants to be aware of concerning others varies from application to application. Standardized techniques and protocols are needed to control such awareness as well as to manage such awareness, e.g., a standardized manner for a user (or an application on the user's mobile device) to access additional context information available from the surrounding infrastructure from the mobile device. Also, such context information should be shareable and understandable, perhaps based on underlying ontologies. In general, standardizing interfaces to place-based virtual communities can encourage widespread deployment and global scale roaming applications. Such awareness aids in forming service ecologies within a locality and helps processes, be it business processes, governmental processes, or tasks and processes in everyday living. These processes can be streamlined in the context of formed communities, or be dynamically tailored according to contexts.

This workshop aims to provide a forum bringing together computing researchers and practitioners to discuss key enabling technologies, technical challenges, solutions, and applications for context-aware communities and processes.

Topics include, but are not limited to:

- Computational and information infrastructure for pervasive communities
- Pervasive processes for aware communities

- Middleware and service platforms for aware communities
- Proposed standards for pervasive communities and processes
- Novel applications based on pervasive communities
- Intelligent agent systems for enabling pervasive communities
- Pervasive communities for the enterprise
- Service-oriented computing to enable aware pervasive communities
- Ontologies for context and situation modelling in pervasive communities
- Case studies of context-aware pervasive communities.

Paper Submission:

Authors should PDF versions of their paper by email to:

Dr Shonali Krishnaswamy

Faculty of Information Technology
Monash University
900 Dandenong Rd, Caulfield East, VIC 3145
Tel (03) 9903 1967
Fax (03) 9903 1077

We encourage two types of submissions:

- 1. Regular submissions – not more than 8 pages in IEEE format, and**
- 2. Short papers / Position papers– not more than 4 pages in IEEE format.**

Submitted papers will be **rigorously peer-reviewed** by the program committee, based on **relevance, originality, technical soundness, and clarity**.

Accepted position papers and regular papers will be presented during the workshop. **We aim for an acceptance rate of 33%.**

Key Dates:

Workshop paper submission: 25 January 2008

Notification of acceptance: 29 February 2008

Registration dateline: In accordance with [Pervasive 2008 Registration](#)

Final versions due: 28 March 2008

Workshop: 19 May 2008

Workshop Organisers:

Dr. Seng Wai Loke

Department of Computer Science and Computer Engineering
La Trobe University, Melbourne, Australia

Dr Shonali Krishnaswamy

Faculty of Information Technology
Monash University

Assoc. Prof. Andry Rakotonirainy

Centre for Accident Research and Road Safety - Queensland (CARRS-Q)
Queensland University of Technology

Workshop Proceedings:

All Pervasive 2008 Workshop Proceedings will be made available online and distributed electronically at the conference on a CD or memory stick.

We will in addition publish paper proceedings of the CAPC 2008 workshop.

Selected papers will be considered for a special issue of a journal (we are in contact with Pervasive and Mobile Computing, Elsevier).

Workshop Registration:

We expect that at least one author of each accepted paper will register for the workshop.

Registration details will be available at the [Pervasive 2008](#) website.

The [EII Taskforce on Context-Aware Computing](#) will be able to support a limited number of registrations for PhD students wishing to attend the workshop. Please contact [Shonali Krishnaswamy](#) for further information.

Program Committee (TBC)

- [Michael Beigl](#), Technische Universität Braunschweig, Germany
- [Patrick Brezillon](#), University Paris VI
- [Anind Dey](#), Carnegie Mellon University
- [Mohamed Gaber](#), CSIRO
- [Jadwiga Indulska](#), The University of Queensland
- [Karen Henriksen](#), NICTA, Australia
- [Chris Johnson](#), ANU, Australia
- [Judy Kay](#), University of Sydney, Australia
- [Bob Kummerfeld](#), University of Sydney, Australia
- [Chris Ling](#), Monash University
- [Hongen Lu](#), La Trobe University, Australia
- [Chris Lueg](#), University of Tasmania

- **Max Ott**, NICTA, Australia
- **Evi Syukur**, Monash University, Australia
- **Bruce Thomas**, University of South Australia, Australia
- **Torab Torabi**, La Trobe University, Australia
- **Ryan Wishart**, NICTA, Australia
- **Arkady Zaslavsky**, Monash University
- **Albert Zomaya**, The University of Sydney