

CMPPC '07

Common Models and Patterns for Pervasive Computing 2007

Researchers have been developing platforms for pervasive computing for more than 15 years. While significant advancements have been made during this time, now is the time to take stock and align on some key issues to continue the rapid rate of progress and facilitate the wider deployment of pervasive systems. The goal of **CMPPC 2007** is to provide a forum to identify and address these issues. Formal definition and classification of pervasive systems, the determination of common abstractions, models, and best practices for the design and implementation of such systems are some of the expected topics for discussion. Examples of systems used in multiple projects and research groups will be valuable in informing the participants. A critical issue for resolution at this workshop will be the determination of some techniques and benchmarks for effective evaluation of such systems. The anticipated outcome of CMPPC 2007 is a framework for unifying the pervasive and ubiquitous systems community around a set of common models, patterns and best practices for pervasive systems design, implementation and evaluation.

Topics

The workshop focuses on articulating and addressing key impediments to research in pervasive systems. These include topics in the following areas:

- Formal classifications of ubicomp systems (definitions, layers, components)
- Common abstractions, models and design patterns toward interoperability and portability
- Common approaches to technologies, platforms and toolkits such as the use of open source projects.
- Examples of pervasive systems used and supported by multiple projects and research groups avoiding reinvention and rework.
- Techniques and benchmarks for the effective evaluation of ubicomp systems, such as the development of a representative set of scenarios for testing and comparison, approaches to simulation.

Submission Guidelines

To participate in this workshop, attendees must submit a 1-2 page position paper. Accepted position papers will be presented at an introductory session, and a selection of these papers will be selected for a panel discussion. Paper submissions will be selected based on their originality, merit, and relevance to the workshop. All accepted papers must be presented during the workshop. Please visit <http://www.magic.ubc.ca/cmppc/> or email cmppc@magic.ubc.ca if you have any questions.

Important Dates

Paper submission	January 26, 2007
Acceptance notifications	March 2, 2007
Workshop date	May 13, 2007

Workshop Organizers

- Michael Blackstock, UBC, Canada
- Roy Campbell, UIUC
- Rodger Lea, UBC
- Adrian Friday, Lancaster U.
- Allan Messer, Samsung Electronics

Program Committee

- John Barton, IBM
- Cristiano di Flora, Nokia
- Charles Krasic, UBC
- Nitya Narasimhan, Motorola
- Maarten Wegdam, Alcatel-Lucent (Bell Labs) & University of Twente