

Call for Papers

International Workshop on Software Engineering Challenges for Ubiquitous Computing

1-2 June 2006, Lancaster University, Lancaster, UK

Submission Deadline: 20 April 2006

<http://ubicomp.comp.lancs.ac.uk/workshops/seuc2006>

Background

While recent research in ubiquitous computing has produced useful results in the form of novel devices, infrastructures and applications, there has been a lack of research investigating the fundamental software engineering challenges for ubiquitous computing. As a result we are lacking answers to questions such as:

- How do we ensure that ubiquitous computing systems fulfill their required and intended purpose?
- How do we ensure that we can trust these systems to perform as intended?
- How do we produce ubiquitous computing systems efficiently and economically?

The current lack of answers to these questions is a serious shortcoming, especially in the context of business critical applications. As ubiquitous computing technology is increasingly applied for solving critical real-world problems, effective and efficient engineering techniques will become ever more vital.

Objectives

This workshop is intended to initiate a discussion of software engineering challenges for ubiquitous computing. It is aimed at researchers from all areas interested in advancing the state-of-the art in software engineering and ubiquitous computing. The concrete goals of this workshop are:

1. To identify shortcoming of current software engineering approaches when applied to ubiquitous computing.
2. To identify requirements for future engineering techniques.
3. To discuss novel software engineering methods, processes and tools that specifically address the challenges of producing ubiquitous systems.
4. To determine promising areas for future research in software engineering and ubiquitous computing.

Topics suitable for discussion at this workshop include: methods, tools and notations that address both software engineering and ubiquitous computing concerns; system models and specifications; development processes; safety and reliability aspects; evaluation, validation, verification and testing of ubiquitous computing systems; hardware/software integration.

Submissions

Interested individuals should submit a 2-page position paper. Papers may address previous work carried out by the author or discuss ideas related to the four outlined workshop goals.

Submissions should be sent by email to Gerd Kortuem at kortuem@comp.lancs.ac.uk.

The submission deadline is **20 April 2006**.

Organization

Gerd Kortuem, Lancaster University (UK) (Chair)
Alessandro Garcia, Lancaster University (UK)
Ian Marshall, University of Kent (UK)
Cecilia Mascolo, University College London (UK)
Ron Morrison, University of St Andrews (UK)
Morris Sloman, Imperial College London (UK)

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