

1st CoSDEO - Workshop on Context-Systems Design, Evaluation and Optimisation Papers and discussion - past and future

CoSDEO 2010



February 23, 2010

ITG

in conjunction with

[23rd International Conference on Architecture of Computing
Systems \(ARCS\)](#)

Hannover, Germany, February 22nd to 25th, 2010

organised by the

[Department of Distributed and Ubiquitous systems \(DUS\)](#)

Call for Papers:

The CoSDEO-workshop has the goal to bring together reserachers in the areas of context computing that focus on system design, system evaluation, system optimisation and testing.

We are looking for original contributions on theoretical aspects as well as implementations and experiments regarding systems and system design in the field of context computing. In this context, practical implementations which require theoretical investigations shall be discussed.

The workshop focuses on context and systems for context computing. Regarding the context part, an important aspect is the impact and processing scheme for uncertain contexts and quality of context, as well as the appropriate modelling of context and situations. Regarding the systems part, we appreciate resilient and comparable experimantal studies.

Topics of Interest include, but are not restricted to:

- *Design aspects of context aware systems*
- *Experimental work and field studies on context aware systems*
- *Architectures and building blocks for context computing systems*
- *Surveys about architectures and systems for context aware computing*
- *Surveys about architectures and systems for pro-active context computing and context prediction*
- *Optimisation and evaluation of models for context computing*
- *Systems providing and using quality of context*

- Systems providing and using uncertain contexts
- Context reasoning
- Systems to ensure privacy and security in context processing

The workshop will comprise invited papers on current topics of leading experts in the field as well as submitted papers. Page limit for accepted papers (in English) is 10 pages (formatted according to VDE-Verlag style - http://www.ict.tuwien.ac.at/wups/WUPS2010_TeX_template.tex - and guidelines - <http://www.vde-verlag.de/engl/tagunge.html>) and will be published in the ARCS Workshop Proceedings.

All accepted submissions will be published by the VDE publishing house, and are available on the IEEE Digital library.

Additional to a paper session we will also arrange a discussion between workshop participants, invited guests and interested audience on existing context systems, current achievements and intriguing open research aspects.

Paper submission:

Under <http://www.conftool.net/arcs2010/> you will find the conference management of the ARCS, which is available for submissions for this workshop.

Program:

Program as [html](#) or [pdf](#)

08:30 09:20 **Registration**

09:20 09:30 **Welcome**

Session 1: Applications and systems for context computing

(Session chair: Stephan Sigg)

09:30 09:50 **Integrating Context Awareness with SOA: Case Studies for Service-oriented and Context-based Architectures**

Raphael Zender, Ulrike Lucke, Djamshid Tavangarian

09:50 10:10 **A Tool Chain for a Lightweight, Robust and Uncertainty-based Context**

Classification System (CCS)

Henning Günther, Firas El Simrany, Martin Berchtold and Michael Beigl

10:10 10:30 **Recording a Complex, Multi Modal Activity Data Set for Context Recognition**

P. Lukowicz, G. Pirkl, D. Bannach, F. Wagner, A. Calatroni, K. Förster, T. Holleczeck, M. Rossi, D. Roggen, G. Troester, J. Doppler, C. Holzmann, A. Riener, A. Ferscha, R. Chavarriaga

10:30 10:50 **Activity Recognition Using Inertial Sensing for Healthcare, Wellbeing and Sports Applications: A Survey**

Akin Avci, Stephan Bosch, Mihai Marin-Perianu, Raluca Marin-Perianu, Paul Havinga

10:50 11:30 **Coffee break**

Session 2: Design and development of context systems

(Session chair: Martin Berchtold)

11:30 11:50 **DAG Based Context Reasoning: Optimised DAG Creation**

Niklas Klein, Stephan Sigg, Klaus David and Michael Beigl

11:50 12:10 **Trust as a Design Aspect of Context Aware Systems**

Shakib Manouchehri, Matthias Söllner, Jan Marco Leimeister

12:10 12:30 **An Object-Oriented and Context-Aware Approach for Distributed Mobile Applications**

Daniel Graff, Matthias Werner, Helge Parzyjegl, Jan Richling, Gero Mühl

12:30 13:30 **Lunch break**

13:30 15:00 **Group discussion, collaboration and closing**

Important Dates:

December 20, 2009 (extended) Paper submission deadline. Papers must be submitted in pdf or postscript format.

January 07, 2010 (extended) Notification of acceptance

January 14, 2010 (extended) Final paper submission

February 23, 2010 Workshop

Organisation:

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