

# Device-Free Radio-based Recognition

Zurich, Switzerland

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## Important dates

<b>Paper Submission:</b>	27 May 2013
<b>Demo/Video/Poster:</b>	7 June 2013
<b>Notification:</b>	11 June 2013
<b>Camera-ready:</b>	20 June 2013

## Paper submission

Accepted submissions are published in the Ubicomp Workshop proceedings and in the ACM digital library.

Paper submissions must not exceed 15 pages.

Demo/Video/Poster submissions must not exceed 4 pages

The 4th CoSDEO-workshop brings together researchers and practitioners working on the design, implementation, and evaluation of systems, algorithms or models for device-free (DF), radio-based recognition. Recently, using analysis of signal distortions in a radio network to derive contexts such as location, type or activity of an object not outfitted with a radio, has received a growing amount of attention from researchers. The possibility to acquire information without instrumenting users or installing special hardware and without the drawbacks of optical systems has great potential for applications of Ubiquitous Computing.

Radio signals are inherently noisy and signal changes depend on a variety of environmental and sensor-specific factors, which makes the problem of device-free radio-based recognition challenging.

The goal of CoSDEO 2013 is to provide a discussion venue for this growing community in which fundamental problems as well as sophisticated approaches and actual implementations can be presented. Thus, we like to encourage scientists in all stages of their research to submit their original work.

### Scope

Topics of interest include, but are not restricted to:

- *Design aspects of DF radio-based context recognition systems*
- *Experimental work & field studies on DF radio-based recognition*
- *Models/algorithms for DF recognition using radio-based sensors*
- *Reports on the evaluation of DF radio-based recognition systems*
- *Investigations directed at signal processing, recognition robustness, signal sampling, etc. for DF radio-based recognition*
- *Investigations directed at feasibility of recognizing novel classes using radio frequency analysis*
- *System architectures for device-free radio-based recognition*
- *Monitoring of attention levels by DF radio-based sensing systems*
- *Algorithms/methods enabling device-free sensing using existing and novel radio hardware*

To foster discussion and collaboration among participants, the CoSDEO-workshop traditionally features an interactive hands-on session with demo, video and poster presentation. Additionally to regular submissions to this session, all participating authors will be kindly asked to participate according to their contribution.

In conjunction with

UBICOMP 2013