



## Workshop on Context-awareness in Smart Environments

The ubiquity of mobile devices and proliferation of wireless networks will allow everyone permanent access to the Internet at all times and all places. The increased computational power of these devices has the potential to empower people to generate their own applications for innovative social and cognitive activities in any situation and anywhere. This wireless connection is not limited to user devices, almost any artifact from clothing to buildings can be connected and collaborate. Furthermore new sensor technologies and wireless sensor networks provide environmental intelligence and the capability to sense, reason and actuate. This leads to the exciting vision of the interconnection of artifacts embedded in our real environment, forming a society of "intelligent things" and "smart spaces".

The workshop discusses the main concepts and role that context-awareness and context aware systems will play in this vision and the significance for future networks and future Internet. This workshop brings together researchers and practitioners in academia and industry to share recent results on context-awareness, as well as to foster collaboration and coordination in future EU research efforts.

This workshop is being jointly organised by C-CAST, PERSIST and SENSEI, FP7 projects.

## Welcome to Florence!

### Contacts:

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# Workshop on Context-awareness in Smart Environments

Future Network & Mobile Summit 2010  
<http://www.futurenetworksummit.eu/2010>



Florence, 15th June, 2010

# Agenda

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## 8:45 Registration

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## 9:00 Opening

R. Tönjes (University of Applied Science Osnabrück, C-CAST)

A. Gluhak (University of Surrey, SENSEI)

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## 9:10 Session 1:

Socio-economics and Standards: Monetisation of Context and Location

Chair: H. Schotten (University of Kaiserslautern, C-CAST)

M. Eurich (SAP Research, Zurich): "Analysis of the business value chain of future context-aware system"

K. Stanoevska (Uni. St. Gallen, C-Cast): "New Business Models for Context-aware Services"

E. Kovacs (NEC, OMA): "OMA Service API standardization - Open Access to Context-aware Service Enablers"

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## 10:15 Coffee Break

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## 10:45 Session 2:

Context Acquisition: From Sensing to Meaningful Information

Chair: A. Gluhak (University of Surrey, SENSEI)

J. Bernat (Telefonica I&D, SENSEI): "SENSEI: Enabling a global market place for real world information and interaction"

P. Barnaghi (University of Surrey): "An Ontology for Sensor Networks, W3C Semantic Sensor Networks Incubator Group"

O. Corcho (Universidad Politécnica de Madrid, SensorGrid4Env Project):

"SPARQL-based access to sensor networks in environmental applications"

M. Palaniswami, (ISSNIP, Australia): "Interconnection large scale sensor networks for climate research"

R. Raulefs (WHERE Project): "The Where and Where2 Project: Recent Findings and New Tasks"

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## 12:30 Lunch Break & Demonstrations

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## 13:30 Session 3:

### Context Management Platforms: First Step towards Cyber-physical Systems

Chair: R. Tönjes (University of Applied Science Osnabrück, C-CAST)

M. Ohashi (ATR, Japan): "Cross Ubiquitous Platform (CUBIQ) - Ubiquitous Network across Multiple Domains"

T. Mota (PT Inovação, C-Cast): "Context-aware Content Delivery"

B. Moltchanov (Telecom Italia Lab, C-CAST): "Context Management Platform"

A. Picón (Robotiker Tecnalia, m:CIUDAD): "Context-based Statistical User Behaviour Modelling for Mobile Service Recommendation"

A. Laikari (VTT): "VTT Perspective on Context-aware Services - case Games@Large"

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## 15:15 Coffee Break

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## 15:45 Session 4:

### Context-awareness in Dynamic Smart Spaces

Chair: M. Roddy (Lake, PERSIST)

I. Roussaki (National Technical University of Athens, PERSIST): "Managing and Exploiting Context Information in Personal Smart Spaces"

H. Williams (HWU, PERSIST): "Using Context to Enhance Personalisation in Dynamic Smart Spaces"

F. Ramparany (Orange Labs, ITEA-MIDAS, SCS-SmartImmo): "Towards Context-aware Services for Smart Homes, Buildings, Cities"

T. Strang (DLR, iTetris): "Context Awareness in Car to Car Communications"

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## 17:10 Short Break

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## 17:15 Panel Discussion: Lessons Learnt and the Way Forward

Chair: C. Licciardi (Telecom Italia Lab)

N. Baker (University of the West of England/C-Cast), E. Kovacs (NEC/OMA), M. Ohashi (ATR, Japan), M. Palaniswami, (ISSNIP, Australia), O. Fuchs (IBM/C-Cast).

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## 18:00 Conclusion