

# EuroSSC 2009

16-18 September 2009

CCSR, University of Surrey

Guildford, United Kingdom

<http://www.eurossc.org>



The **4th European Conference on Smart Sensing and Context** (EuroSSC) will be held on September 16-18, 2009 at the University of Surrey in Guildford, United Kingdom.

Smart Sensing and Context are the key enablers for smarter autonomous systems, providing transparent technologies to realise the vision of ubiquitous computing, intelligent services and networking. (Wireless) sensor and actuator networks, tightly integrated into our everyday life, provide the underlying manifestation of the physical world into a "Real World Internet". Networked smart sensors can infer context from raw data and thus capture user and application needs to provide smart adaptive services. Higher-level context can be inferred locally/remotely by combining and abstracting information from smart sensors.

This annual conference explores new *techniques, algorithms, architectures, protocols, services, and user aspects* utilising context and context-aware services and applications. Topics coverage include *smart sensing, context recognition, and context processing* in the framework of a Real World Internet. Of growing interest are methods and principles for *context abstraction and processing, quality of context, machine-interpretable representation of context, context-aware service platforms, and horizontalisation of context information access* to leverage smart surroundings for a wide range of applications rather than single closed systems.

EuroSSC 2009 aims to bring researchers from both academia and industry with different levels of backgrounds to explore the latest findings and state-of-the-art developments in technology, human and user aspects:

- **Technology and system aspects:** concerning intelligent sensors, sensor and actuator networks, information processing for a new generation of context enabled devices, Real World Internet, and smart environments.
- **Human and user aspects:** exploring web-based scenarios, embedded applications and interaction methods for context-aware and pro-active distributed applications made possible by the diffusion of ambient communication, cooperating objects, and Human-Computer interaction technologies.

We welcome submission of original and unpublished **technical papers, posters, and demonstration papers** covering all areas related to smart surroundings, context-awareness, networked embedded sensor and actuator systems and the Real World Internet.

## Important Dates

**Full Paper Submission**  
27 April 2009

**Notification of Acceptance**  
1 July 2009

**Poster and Demo Submission**  
20 July 2009

**Notification of Poster and Demo Acceptance**  
2 August 2009

**General Chair**  
Payam Barnaghi  
CCSR, University of Surrey

**TPC Co-Chairs**  
Paul Havinga  
University of Twente

Gerd Kortuem  
Lancaster University

Clemens Lombriser  
ETH Zürich

Daniel Roggen  
ETH Zürich

Mirko Presser  
CCSR, University of Surrey

Klaus Moessner  
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Stefan Meissner  
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Payam Barnaghi  
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**Local Co-Organisers**  
Hamidreza Abangar,  
Safa Sway  
CCSR, University of Surrey

The topics of interest include (but are not limited to):

#### Distributed smart sensing and context recognition

- Smart sensing: sensors inferring context and context-aware sensing
- Context-aware surroundings and infrastructures
- Distributed objects and wearables inferring context
- Algorithms and architectures for scalable context recognition
- Quality of Context (context uncertainty, unreliable sensing)
- Distributed software architectures for context awareness

#### Context processing and categorisation

- Context reasoning, fusion, transformation, inference
- Context processing given Quality of Context
- Scalable context management and processing architectures
- Information aspects of context-aware sensor and actuator systems
- Context categorisation and classification

#### Context-altering actuators, interaction methods, and human aspects

- Principles and methods for context-aware actuation and feedback
- Distributed context-aware actuators
- Interaction with context-aware objects, wearables and proactive interfaces
- Quality of Actuation
- Symbiosis between autonomic context-aware sensor and actuator systems and users
- Social implications, user-controlled privacy, securing context

#### Service environment, applications, deployment, test beds and case studies

- Real-world experiences with deployed systems
- Integration with the Internet of the Future – the Real World Internet
- Applications and case studies related to smart surroundings & intelligent objects
- Development tools, deployment principles, and life-cycle support
- Wearable computing and pervasive computing applications
- Sensor networks and information processing for new generations of context enabled devices
- Intelligent sensors and sensor network systems
- Context-aware service platforms

### **Submission**

All submitted papers will be judged based on their novelty, clarity, and relevance through double-blind reviewing, where the identities of the authors are withheld from the reviewers.

Authors of accepted submissions will have the opportunity to update their submissions based on the reviews before the final electronic copy is due. EuroSSC 2009 requires electronic submission. Reviewers will be instructed to maintain the confidentiality of all materials for submitted papers throughout the entire reviewing process. Submissions should contain no information that will be proprietary or confidential at the time of publication.

### **Papers**

Full papers should not exceed 14 pages in length, LNCS format. Technical Papers are peer reviewed. Accepted papers will be included in the Conference Proceedings. Proceedings will be published by Springer-Verlag in the series Lecture Notes in Computer Science (LNCS). The proceedings will also be made available through the digital library.

### **Posters and Demonstrations**

Posters and demonstrations should present recent and on-going research in smart sensing and context area. The poster and demonstration submissions should include a 4-page (LNCS format) description of the current research. Accepted submissions will be printed in the adjunct conference proceedings. The submitted works will be presented at the conference poster and demonstration session.

### **Contact**

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