



Call for Papers First International Workshop on Semantic Interoperability for Smart Spaces (SISS 2010)

organized in association with the
IEEE Symposium on Computers and Communications (ISCC 2010)
22 June 2010, Riccione, Italy - <http://www.ieee-iscc.org/2010/>

Smart spaces will play a crucial role in the market of devices, services, and applications for the next years and in the everyday users' experience with the personal, home, and urban environments where citizens work and live. The effective design, implementation, and run-time support of smart applications in wide-scale pervasive environments are considered still very open challenges nowadays. Currently, the high costs still associated with the development of these smart applications are limiting their widespread adoption and their potential impact on the mass market of final users. Costs relevantly derive from the complexity of integrating already deployed heterogeneous systems, from differentiated sensors providing data in different formats via heterogeneous wireless technologies, and from nodes with differentiated capabilities/resources to highly heterogeneous legacy services.

The First International Workshop on Semantic Interoperability for Smart Spaces (SISS 2010) aims at soliciting and promoting the discussion among academic/industrial researchers, practitioners in the field, and most relevant industry players about the above issue of cost reduction via interoperability, with the primary guideline of **addressing interoperability of heterogeneous devices and systems** via the adoption of proper semantic solutions for open smart spaces. The focus will be on novel and open innovation platforms for the effective sharing of interoperable information in smart environments: smart applications should have the possibility to effectively and easily access to highly interoperable and shared information spaces that maintain data/metadata of common interest (sensed monitored data, information about currently available resources/services, ...). Contributions to SISS 2010 should address the technical challenges arising from emerging smart spaces, capable of openly including new devices, systems, applications, and final users, and to properly scale up to the challenging size of urban-wide scenarios. Visionary and early-stage work that is rigorously presented and can steer discussion to new topics is particularly welcome, as well as more solid and extensively evaluated work that reports practical and industrial experience in the field. The SISS 2010 workshop is organized by academic experts and industrial players also collaborating in a joint research project called Smart Objects for Intelligent Applications (SOFIA – <http://www.sofia-project.eu>), funded through the European Artemis programme.

SISS 2010 topics of interest include but are not limited to the following:

- Semantic interoperability of smart spaces;
- Requirements of open innovation platforms;
- Architectures and systems for interoperability in open smart environments;
- Software engineering for reusability of interoperable information in smart environments;
- Middleware for open smart spaces;
- Semantic technologies and techniques for of interoperable information in smart environments;
- Application design/deployment and development supports for open smart spaces;
- User-to-device and device-to-device interaction models for smart environments;
- Context abstraction and usability for smart environment applications;
- Practical experiences and experimental evaluations of testbeds and field trials for open smart spaces;
- Industrial reports about the exploitation of information interoperability solutions for open smart spaces;
- Smart personal spaces;
- Smart spaces for the house of the future;
- Smart spaces for future cities.

Paper Submission

Papers should be written in English. They should not exceed six (6) pages in length in IEEE double column proceedings format, including all figures, tables, and references (papers exceeding this limit will not be reviewed). Papers meeting these requirements will be peer-reviewed by three independent reviewers, including at least two TPC members. Papers must present original and unpublished work and should not be currently under review by any other conference or journal. Papers should be submitted via email to the Workshop Chairs (paolo.bellavista@unibo.it, eila.ovaska@vtt.fi).

All accepted papers will be included in the ISCC 2010 Workshops Proceedings, will be available on IEEE Xplore, and will be professionally indexed by the IEEE Computer Society's Conference Publishing Service.

Important dates

Paper submission due:	February 28, 2010
Notification of paper acceptance:	March 20, 2010
Submission of camera-ready papers:	April 13, 2010
Workshop date:	June 22, 2010

For any additional information/clarification needed and for paper submission, please contact the Workshop Chairs below via email.

Workshop Chairs

- Paolo Bellavista, University of Bologna, Italy

Email: paolo.bellavista@unibo.it; homepage: <http://lia.deis.unibo.it/Staff/PaoloBellavista/>

- Eila Ovaska, VTT Technical Research Centre, Finland

Email: eila.ovaska@vtt.fi; homepage: http://www.vtt.fi/people/eila_ovaska.pdf