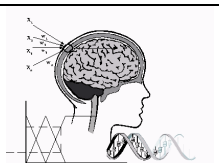
International

Innovation in Knowledge Based and Intelligent Engineering Systems



INVITED SESSION SUMMARY

Title of Session:
Smart Environments and Information Systems (SEIS)

Name of Chairs:
Massimo Cossentino (National Research Council of Italy, Italy)
Vincent Hilaire (Université de Belfort-Montbeliard, France)
Juan Pavon (Universidad Complutense de Madrid, Spain)

Publicity Chair:
Luca Sabatucci (National Research Council of Italy, Italy)

Details of Session:

Smart environments compile a huge number of data, which have to be processed to provide responses in real time. This requires new ways to consider the information system platforms supporting them.
As a matter of fact, by sensing our surrounding environment and/or adding effectors of many sorts we are currently building a new generation of information systems able to improve our everyday life. The applications covered by this kind of systems range from health and safety to power efficiency and comfort.
This special session has the purpose of discussing the requirements of the information systems supporting smart environments, as well as the methods and techniques that are currently being explored in this area.

The list of topics also includes:

- Theories, techniques and technologies for ubiquitous systems, smart environments, smart spaces, smart cities/buildings/grids/...
- Dynamic/adaptive/runtime service coordination/orchestration techniques
- Self-adaptative systems
- Self-organizing systems
- Intelligent and multi-agent systems
- Modelling/programming languages, design methodologies for intelligent and multi-agent systems
- Tools to support the development of information and control systems for smart environments

Website URL (if any):
http://ecos.pa.icar.cnr.it/events/kesSession

Email & Contact Details:
Massimo Cossentino, email: cossentino@pa.icar.cnr.it
Vincent Hilaire, email: vincent.hilaire@utbm.fr
Juan Pavon, email: jpavon@fdi.ucm.es
Luca Sabatucci, email: sabatucci@pa.icar.cnr.it

Massimo Cossentino (short) CV

Massimo Cossentino, got his master degree in Electronics Engineering and his PhD in Computer Science Engineering from the University of Palermo. From 2001 he is a research scientist of the Italian National Research Council at the Palermo Dept. of the ICAR (Institute for High Performance Computing and Networks) Institute where he is currently leading the Engineering COmplex and Smart systems (ECOS) lab.
During the academic year 2006-07 and in the second semester of year 2007-08 he has been an invited associate professor at the Laboratoire Systèmes et Transports (SET) of the Université de Technologie Belfort-Montbélliard (France).
He has been teaching software engineering courses at the University of Palermo from 2001.
In October 2008 he got his “Habilitation a Diriger des Recherce” from the Université Paul Sabatier of Tolouse (France).
His research interests are in the field of Software Engineering and more specifically: self-adaptive and self-organizing systems, software design methodologies and composition of design processes, multi-agent simulations.
He is the author of more than one hundred and seventy scientific papers published in international journals, conference and workshops proceedings, books.

Vincent Hilaire (short) CV

Vincent Hilaire received his doctorate in computer science and his position as senior lecturer in the "Université de Technologie de Belfort-Montbéliard" in 2000. He received his Research Direction Habilitation, at the "Université de Franche-Comté" in 2008. Since 2008, he is responsible of the Multi-Agent Systems team of the SeT Laboratory. His research interests include: formal specification and methods for engineering multi-agent systems, knowledge management based on multiagent systems and design architectures for agents.

Juan Pavón (short) CV

Juan Pavón is Full Professor at Universidad Complutense Madrid. He got a PhD degree in Computer Science from Universidad Politécnica Madrid (1988). From 1987 to 1997 he was working in R&D departments of Alcatel in the development of component-based architectures for distributed systems and their application to multimedia services on broadband networks and mobile systems. He joined UCM at the end of 1997, where he created the GRASIA research group, whose focus is on the application of multi-agent systems technology, in particular, on software and web engineering, knowledge management, simulation of complex systems, decision making, and ambient assisted living.