

## International Conference on Sustainability in Energy and Buildings

### Invited Sessions

**Title of Session: Intelligent Agents for Sustainability in Energy and Buildings**

**Name of Chair: Marina V. Sokolova and Antonio Fernández-Caballero**

Description:

Agents and multi-agent systems (MAS) are actively used for problem solving and have recommended themselves as a reliable and powerful technique. The complexity and uncertainty of the nature of environmental and renewable energy systems, and the heterogeneity of related information, require a complex approach for their study, based on and consisting of data management, pre-processing, modelling, simulation and, decision making support. It is necessary to provide a complex hybrid application of methods and techniques from various disciplines. Using agents seems to be an optimal solution here.

This special session on “Intelligent Agents for Sustainability in Energy and Buildings” seeks to bring together researchers for a creative discussion on recent advances and challenges of the need for highly intelligent information technologies in sustainability issues. This session will focus on the ongoing works and the latest results of the design and implementation of agent-based tools and applications for renewable energy technologies and their applications for intelligent sensing, control, optimisation and modelling techniques to sustainability.

Papers are requested to this session as contributions that describe the use and application of agent-based systems; sensor systems; expert systems; knowledge-based systems; awareness information systems; Internet technologies for environmental and renewable energy systems; modelling and simulation tools; and frameworks.

**Website URL (if any):**

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