

# International Modeling & Simulation Multiconference 2007

(IMSM07)

12th, 8th and 10th February, 2007, Buenos Aires, Argentina

## AI, Simulation and Planning in High Autonomy Systems (AIS) & Conceptual Modeling and Simulation (CMS)

General Chairs: **Bernard Zeigler, Norbert Giambiasi**

Program Chair: **Fernando Barros**



**Invited session:**

### **“Agent Based Modeling & Simulation, in Industry & Environment”**

Research in the domain of multi-agent systems (MAS) is becoming more and more important because of the capacity of MAS to design and simulate complex systems, i.e. systems composed of many entities in interaction between themselves and with an external environment. MAS are used in many domains in which classical mathematical models are not available because either the dynamics are far from equilibrium, or the systems are open (creation and deletion of entities in the course of simulation), or emergent phenomena have to be explored, or the entities are heterogeneous (for example, the eco-socio-systems which combine ecological and social dynamics), or simply because they provide a more intuitive understanding. These sessions are intended to offer a forum for people interested in agent-based modeling and simulation to discuss methodologies, techniques in two main application fields: Industry and Environment.

In industry the main goal of this session is to point out the current research works on applications and tools for modeling and simulation with MAS in industrial systems with MAS and to facilitate contacts and dialogue between scientists (in informatics, automatics and industrial engineering) and industry.

*Applications: modeling and/or simulation in: Control of industrial systems, Scheduling, Planning, Supply chain, Business Process, Transport and Logistics.*

In Environment, the main goal of this session is to stimulate contacts between practitioners of multi-agent systems on socio-ecosystems in order to exchange experiences on large-scale applications, modeling methodologies and management of multi-scale (both temporal and spatial), multi-resolution, and multiple viewpoints models.

*Applications: Environment management, Resource management, Social impact on environment, Political impact on environment, Environmental Decision Support Systems, Socio-eco-systems modeling.*

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#### Important Dates

- Full paper Due: September 29th, 2006
- Notification of Acceptance: October 28th, 2006
- Camera-Ready Papers: November 30th, 2006

Website : <http://www.lsis.org/ims07/>