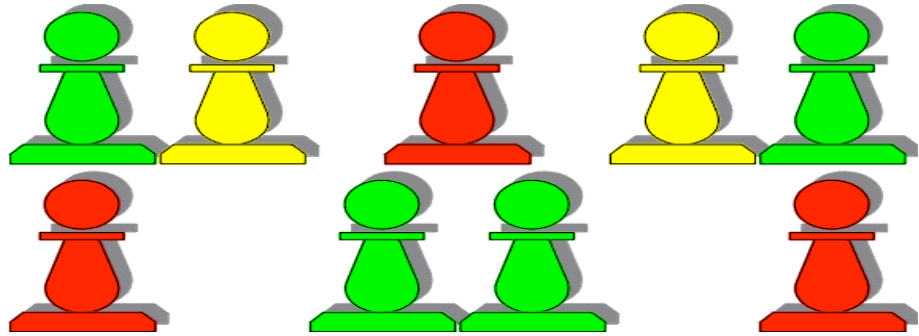




Workshop 2004



Agent-Based Simulation 5

Centro de Ciências da Complexidade organizes the 5th International Workshop on Agent-Based Simulation

Lisboa, Portugal

3-5 May 2004

<http://www.scs-europe.org/conf/abs2004/index.html>



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. The workshop is intended to offer a forum for people interested in agent based simulation to discuss methodologies, techniques and applications.

We encourage contributions which present not only case studies but also critical analysis on the pertinence of multi-agent models and their usefulness for understanding or for decision making, design and validation methodologies, comparative studies in the modelling sciences. In particular, the subjects include but are not limited to:

- Design, implementation and validation methodologies, including participative protocols;
- Modelling languages and platforms;
- Agent architecture for simulation;
- Interaction protocols including with humans;
- Multi-level simulation and emergence of global phenomena (including norms and institutions);
- Time and space representation including multiple scales;
- Comparison with centralized models, relationship between individual-based versus aggregative models;
- Conceptual and epistemological analysis.

The application domains include but are not limited to:

- Ecology and environment;
- Psychology and cognitive science;
- Social simulation;
- Economical models;
- Industry, manufacturing and logistics;
- Robotics;
- Virtual reality.

1st Call for Papers

Workshop Topics

Conference Committee

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Deadlines

Paper submission (full paper)

January 30, 2004

Notification of acceptance

February 20, 2004

Camera-ready papers

March 15, 2004

* Papers to send in pdf format to the two Program Chairmen *

The best papers will be published by an International Journal.

For questions concerning submissions please see our web-site or contact Rainer Rimane

Venue ☐ The Conference will take place in Lisboa, Portugal, in the Complexo Interdisciplinar I building, Campus of Lisbon University. Lisboa is located in the front of Tagus river, very near from the atlantic sea. It is easily reachable by plane (Lisboa International Airport) and by train.

Accommodation ☐ Workshop participants are requested to make their own arrangements. A number of rooms have been appointed in various hotels of the center. Please see our web-site for information about accommodation in Lisboa.

Lisboa is the capital of Portugal and lies on the north bank of the Tagus Estuary, on the European Atlantic coast. It is the westernmost city in continental Europe. Greater Lisboa has an area of approximately 1,000 km². The city lies more or less in the centre of the country, approximately 300 km from the Algarve in the south and 400 km from the northern border with Spain. Lisboa offers a wide variety of options to the visitor, including beaches, countryside, mountains and area of historical interest only a few kilometres away from the city centre. Due to the influence of the Atlantic Ocean, Lisboa has a pleasant climate throughout the year. The agreeable temperatures in the summer months are an open invitation for a walk by the river, or to spend an afternoon in one of the many street cafés to be found all over the city. Although the temperatures may fall somewhat in the autumn and winter months, sunshine is almost always a constant feature. Approximately 600,000 people live in Lisboa. However, if one includes the various satellite towns, the population of Greater Lisboa rises to approximately 1.9 million people.

<http://www.atl-turismolisboa.pt/>

