

Call for Papers

ESAW'00

First International Workshop on Engineering Societies in the Agents' World

<http://lia.deis.unibo.it/confs/ESAW00/>

August 21, 2000 – Berlin (Germany)

held in conjunction with ECAI 2000

14th Biennial European Conference on Artificial Intelligence

<http://www.ecai2000.hu-berlin.de/>

Program Committee

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Organisers & Chairmen

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| Andrea Omicini | (Italy) |
| Robert Tolksdorf | (Germany) |
| Franco Zambonelli | (Italy) |

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Important Dates

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| Submission due: | April 7, 2000 |
| Notification sent: | May 10, 2000 |
| Final paper due: | June 12, 2000 |
| Workshop: | August 21, 2000 |
| LNAI paper due: | September 20, 2000 |

Workshop Web Site

The latest information on ESAW'00 can be found at:

<http://lia.deis.unibo.it/confs/ESAW00/>

Electronic Submission

Send your contribution as a PDF or PS file to:

esaw00@deis.unibo.it

Technical Description

DAI researchers and technology makers are paving the way towards new worlds to build, where a multitude of independent entities interact within artificial societies pursuing goals on our behalf, both as individuals and as groups. Applications and systems built as societies of autonomous and intelligent agents promise to provide computer scientists and engineers with the expressive and computational power to tackle levels of complexity never reached before.

Going far beyond the boundaries of DAI, multi-agent systems (MAS) are rapidly evolving into an independent research field, which gathers contributions from many different areas such as Distributed Systems, Social & Cognitive Sciences, Mobile Computing, and so on. In particular, MAS engineering may actually represent the next frontier for the design and development of complex software systems, by providing agents and societies as powerful abstractions for decomposing tasks, modelling complex domains, and embedding intelligence into real-world applications.

In this context, there is an urgent need not only for theoretical foundations making MAS conceptual setting clear, but also for specific methodologies driving MAS design, for specific technologies and processes driving MAS development, and for powerful and manageable infrastructures making MAS a viable approach to embed intelligence into applications.

The workshop is devoted to discuss technologies, methodologies and models for the engineering of complex applications based on MAS, and aims at bringing together researchers and contributions from both within and outside the DAI field – from Software Engineering, Distributed Systems, Social Sciences, and so on –, so as to promote cross-fertilisation among different research areas. By focussing on the social aspects of MAS, ESAW'00 concentrates on the space of agent interaction, rather than on intra-agent issues, and on the technology and methodology issues rather than on the pure theoretical aspects.

Topics

- coordination models and technologies for engineering agent societies
- analysis, design, development and verification of agent societies
- engineering social intelligence and emergent behaviours in MAS
- application experiences in building agent societies
- centralised vs. decentralised social control
- interaction/coordination patterns in agent societies
- security and mobility issues in agent societies
- enabling infrastructures for agent societies
- methodologies, tools and artifacts for engineering agent societies
- design vs. self-organisation

Workshop Organisation

ESAW'00 will take place August 21, at the Humboldt University, Berlin, in conjunction with ECAI 2000, the 14th Biennial European Conference on Artificial Intelligence. The organisers welcome and encourage submission of original papers, promoting and soliciting the discussion on the key-topics among workshop attendants. To further encourage and promote the discussion, early and final versions of the accepted papers will be available to authors, speakers, PC members and workshop attendants on the ESAW'00 web site as soon as they are available, before the workshop takes place.

Submission Information & Proceedings

A volume with the proceedings will be available at the workshop for the attendants. Authors of papers presented at the workshop will be asked to extend their contribution, possibly incorporating the results of the workshop discussion, to be included in the workshop post-proceedings. Post-proceedings will be published by Springer-Verlag as a volume of the Lecture Notes on Artificial Intelligence series (<http://www.springer.de/comp/lncs/index.html>). Contributions (up to 12 pages) should be formatted according to the LNAI style guide (<http://www.springer.de/comp/lncs/authors.html>) and sent as a PDF or Postscript file to the address esaw00@deis.unibo.it.