ESAW '02

Third International Workshop

Engineering Societies in the Agents World

16-17 September 2002,

Universidad Rey Juan Carlos, Madrid, Spain

(EU)

Organisers:

Paolo Petta, Robert Tolksdorf, Franco Zambonelli
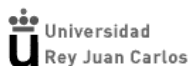
Local Chair:

Sascha Ossowski

Submission deadline: 10 June, 2002

<URL: http://www.ai.univie.ac.at/~paolo/conf/ESAW02/ >

Co-located with the

6th International Workshop on Cooperative

Information Agents (CIA2002)

Universidad Rey Juan Carlos · AGENTLINK · ÖGAI · MINISTERIO DE CIENCIA Y TECNOLOGIA

AIMS & SCOPE

The characteristics of software systems are undergoing dramatic changes. We are moving rapidly into the age of ubiquitous information services. Persistent computing systems are being embedded in everyday objects. They interact in an autonomous way with each other to provide us with increasingly complex services and functionalities that we can access at any time from anywhere. As a consequence, not only do the numbers of components of software systems increase; there is also a strong qualitative impact. Software systems are increasingly made up of autonomous, proactive, networked components. These interact with each other in patterns and via mechanisms that can hardly be modeled in terms of classical models of interaction or service-oriented coordination. To some extent, future software systems will exhibit characteristics making them more resemblant of natural systems and societies than of mechanical systems and software architectures.

This situation poses exciting challenges to computer scientists and software engineers. Already, software agents and multi-agent systems are recognised as both useful abstractions and effective technologies for the modeling and building of complex distributed applications. However, little is done with regard to effective and methodic development of complex software systems in terms of multi-agent societies. An urgent need exists for novel approaches to software modeling and software engineering that enable the successful deployment of software systems made up of a massive number of autonomous components, and that allow to control and predict their behaviour. It is very likely that such innovations will exploit lessons from a variety of different scientific disciplines, such as sociology, economics, organisation science, modern thermodynamics, and biology.

The sequel to successful editions in 2000 and 2001, ESAW'02 remains committed to the use of the notion of multi- agent systems as seed for animated, constructive, and highly inter-disciplinary discussions about technologies, methodologies, and tools for the engineering of complex distributed applications. While the workshop places an emphasis on practical engineering issues, it also welcomes theoretical, philosophical, and empirical contributions, provided that they clearly document their connection to the core applied issues.

TOPICS OF INTEREST…

…therefore include (but are not limited to):

- analysis, design, development and verification of agent societies
- very large-scale multi-agent systems
- models of complex distributed systems with agents and societies
- coordination models & technologies for engineering of agent societies
- interaction-coordination patterns in agent societies
- inter-disciplinary approaches to engineering of agent societies
- engineering of social intelligence in multi-agent systems
- indirect programming of multi-agent systems
- centralised vs. decentralised social control
- self-organisation in agent societies
- security and trust in agent societies
- middleware infrastructures for agent societies
- studies of information ecosystems
- applications of analyses of entangled behaviour and bizarre systems
- experiences in building and maintaining large agent societies
- insightful analyses of negative results

WORKSHOP ORGANISATION

Workshop Organisers

Paolo Petta (paolo@oefai.at), *Austrian Research Institute for Artificial Intelligence, Vienna* (Austria)

Robert Tolksdorf (tolk@cs.tu-berlin.de), *TU Berlin* (Germany)

Franco Zambonelli (franco.zambonelli@unimo.it), *Univ. Bologna* (Italy)

Local Organising Chair

Sascha Ossowski (s.ossowski@escet.urjc.es), *Univ. Rey Juan Carlos, Madrid* (Spain)

Programme Committee

Federico Bergenti, *Dip. Ingegneria dell'Informazione, Univ. degli Studi di Parma* (Italy)

Jeffrey Bradshaw, *Inst. for Human & Machine Cognition, Univ. of West Florida* (USA)

Cristiano Castelfranchi, *Inst. of Psychology, CNR* (Italy)

Paolo Ciancarini, *Dip. Scienze dell'Informazione, Univ. di Bologna* (Italy)

Helder Coelho, *Dept. of Informatics of the Faculty of Sciences, Univ. of Lisbon* (Portugal)

Keith Decker, *Dept.Computer&Information Sciences, Univ. of Delaware* (USA)

Paul Davidsson, *Dept. of Software Engineering & Computer Science, Blekinge Inst. of Technology* (Sweden)

Bruce Edmonds, *Centre for Policy Modelling, Manchester Metropolitan Univ.* (UK)

Rino Falcone, *Inst. of Psychology, CNR* (Italy)

Tim Finin, *Computer Science & Electrical Engineering Dept., Univ. of Maryland Baltimore County* (USA)

Stephan Flake, *C-LAB, Cooperative Computing & Communication Lab* (Germany)

Martin Fredriksson, *Dept. of Software Engineering & Computer Science, Blekinge Inst. of Technology* (Sweden)

Marie-Pierre Gleizes, *IRIT, Univ. Paul Sabatier, Toulouse* (France)

Rune Gustavsson, *Dept. of Software Engineering & Computer Science, Blekinge Inst. of Technology* (Sweden)

Nicholas R. Jennings, *Dept. of Electronics & Computer Science, Univ. of Southampton* (UK)

Paul Kearney, *Intelligent Agents, BT Exact* (UK)

Matthias Klusch, *German Research Center for Artificial Intelligence -, DFKI GmbH, Saarbrücken* (Germany)

Yannis Labrou, *Powermarket, Inc.* (USA)

Lyndon C. Lee, *Intelligent Agents, BT exact* (UK)

Michael Luck, *Dept. of Electronics & Computer Science, Univ. of Southampton* (UK)

Scott Moss, *Centre for Policy Modelling, Manchester Metrop. Univ.* (UK)

Pablo Noriega, *Laboratorio Nacional de Informática Avanzada, A.C, Xalpa, Vera Cruz* (México)

Andrea Omicini, *Dip. di Elettronica, Informatica e Sistemistica, Univ. di Bologna, Cesena* (Italy)

H.Van Dyke Parunak, *Altarum Inst., Ann Arbor, MI* (USA)

Michal Pechoucek, *Faculty of Electrical Engineering, Czech Technical Univ. Prague* (Czech Republic)

Jeremy Pitt, *Electrical and Electronic Engineering Dept., Imperial College, London* (UK)

Agostino Poggi, *Dip. di Ingegneria dell'Informazione, Univ. degli Studi di Parma* (Italy)

John R. Rose, *Dept. of Computer Science & Engineering, Univ. of South Carolina* (USA)

Onn Shehory, *IBM Haifa Research Laboratories* (Israel)

Christophe Sibertin-Blanc, *IRIT, Univ. Paul Sabatier, Toulouse* (France)

José M. Vidal, *Dept. of Computer Science & Engineering, Univ. of South Carolina* (USA)

Gerhard Weiß, *Inst. für Informatik, Technische Univ. München* (Germany)

Bin Yu, *Information Technology & Engineering, North Carolina State Univ.* (USA)

SUBMISSION FORMAT

Contributions should not exceed 12 pages and should be formatted according to the LNCS/LNAI style guide (http://www.springer.de/comp/lncs/authors.html). Only electronic submission is allowed. Please see the ESAW'02 webpages (http://www.ai.univie.ac.at/~paolo/conf/ESAW02/) for further information.

DEADLINES and DATES

Paper submission deadline:	June 10, 2002
Notifications of acceptance/rejection:	July 10, 2002
Camera-ready papers for Workshop Notes:	September 1, 2002
ESAW'02 Workshop:	September 16-17, 2002
Revised papers for LNAI Post-Proceedings:	October 15, 2002

Working Notes and Post-Proceedings

Accepted papers will be collected in the ESAW'02 Working Notes. Working Notes with all accepted contributions will be available at the workshop. Extended versions of papers presented at the workshop incorporating the results of the discussions will be published in the workshop's post-proceedings. As for the earlier workshop editions (LNAI 1972, LNAI 2203), post-proceedings will be published by Springer-Verlag in the Lecture Notes on Artificial Intelligence series.

ACKNOWLEDGMENTS