

# Workshop on Agent Based Computing: from Model to Implementation VII (ABC:MI'10)

Wisla, Poland, October 18-20, 2010

The field of agent technology is rapidly maturing. One of key factors that influence this process is the gathered body of knowledge that allows in-depth reflection on the very nature of designing and implementing agent systems. As a result, we know better how to design and implement them. We also understand the most important issues to be addressed in the process. Therefore, on the top-most level we see progress in development of methodologies for design of agent-based systems. Furthermore, these methodologies are usually supported by tools that allow not only top level conceptualization but guide the process towards implementation (e.g. by generating at least some code). Next, we can see that new languages for agent based systems are created, e.g. AML or API Calculus. Separately, tools/platforms/environments that can be used for design and implementation of agent systems have been through a number of releases, eliminating problems and adding new, important features. Resulting products are becoming truly robust and flexible. Furthermore, open source products (e.g. JADE) are surrounded by user communities, which often generate powerful ad-on components, further increasing value of existing solutions.

During the Workshop we are primarily interested in all aspects of the process that leads from the model of the problem domain to the actual agent-based solution. These aspects will cover both principled approaches and established practices of software engineering aimed at producing high quality software. In this context, research into the application of agent-based solutions to key challenges faced by software engineering (e.g. reduction of costs and delivery times, coping with a larger diversity of problems) will be of primary importance.

ABC:MI Workshop welcomes submissions of original papers concerning all aspects of software agent engineering.

#### Topics include but are not limited to:

Methodologies for design of agent systems	Agent languages
Multi-agent systems product lines	Agent learning and planning
Modeling agent systems	Agent mobility
Agent architectures	Agent modeling, calculi, and logics
Agent-based simulations	Agent security
Simulating and verifying agent systems	Agents and Service Oriented Computing
Agent benchmarking and performance measurement	Agents in the Semantic Web
Agent communication, coordination and cooperation	Applications and Experiences

#### Papers Submission:

Authors should submit draft papers (as Postscript, PDF or MSWord file).

The total length of a paper should not exceed 8 pages (IEEE style). IEEE style templates will be posted shortly.

Papers will be refereed and accepted on the basis of their scientific merit and relevance to the workshop.

Accepted and Presented paper will be published in the Conference Proceedings and included in the IEEE Xplore® database

Authors of selected best papers accepted and presented during the ABC:MI Workshop will be invited to submit extended versions of their contributions to the special issue of the Multiagent and Grid Systems Journal (published by IOS Press; to be published in the last issue published in 2011).

The second special issue is planned for the Science of Computer Programming journal (published by Elsevier).

Finally, a separate special issue is planned for the Journal of Network and Computer Applications (also published by Elsevier). This issue is to be topic-focused, and consist of selected papers originating from the ABC:MI and from an open call.

Organizers reserve right to move accepted papers between IMCSIT events.

#### Program Committee:

**Thomas Agotnes**, University of Bergen, Norway

**Sattar Al-Maliky**, University of Babilon, Iraq

**Makoto Amamiya**, Osaka Institute of Technology and Kyushu University, Japan

**Lars Braubach**, University of Hamburg, Germany

**Paolo Bresciani**, European Commission – DG Information Society and Media, Belgium

**Zoran Budimac**, University of Novi Sad, Republic of Serbia

**Giacomo Cabri**, University of Modena and Reggio Emilia, Italy

**Bengt Carlsson**, Blekinge Institute of Technology, Sweden

**Radovan Cervenka**, Whitestein Technologies, Slovak Republic

**Krzysztof Cetnarowicz**, AGH University of Science and Technology, Poland

**Ireneusz Czarnowski**, Gdynia Maritime University, Poland

**Hoa Khanh Dam**, University of Wollongong, Australia

**Beniamino Di Martino**, Seconda Universita' di Napoli, Italy

**Amal El Fallah Seghrouchni**, LIP6, France

**George Eleftherakis**, CITY International Faculty of the University of Sheffield, Greece

**Mohammad Essaaidi**, Abdelmalek Essaadi University, Morocco

**Adina Magda Florea**, University "Politehnica" of Bucharest, Romania

**Giancarlo Fortino**, University of Calabria, Italy

**Ana Garcia-Fornes**, Universidad Politécnic de Valencia, Spain

**Dominic Greenwood**, Whitestein Technologies, Switzerland

**Maurice Grinberg**, New Bulgarian University, Bulgaria

**Andreas Herzig**, IRIT, France

**Mike Hinchey**, Lero-the Irish Software Engineering Research Centre, Ireland

**Piotr Jedrzejowicz**, Gdynia Maritime University, Poland

**Gordan Jezic**, University of Zagreb, Croatia

**Tomas Klos**, Delft University of Technology, Netherlands

**Matthias Klusch**, German Research Center for Artificial Intelligence, Germany

**Igor Kotenko**, SPIIRAS, Russian Federation

**Zofia Kruczkiewicz**, Technical University of Wroclaw, Poland

**Michal Laclavik**, Institute of Informatics, Slovak Academy of Sciences, Slovak Republic

**Jiming Liu**, Hong Kong Baptist University, China

**Vincenzo Loia**, University of Salerno, Italy

**Michele Loreti**, University of Florence, Italy

**Giuseppe Mangioni**, University of Catania, Italy

**Viorel Negru**, West University of Timisoara, Romania

**Andrea Omicini**, Alma Mater Studiorum, Universita di Bologna, Italy

**Nir Oren**, King's College London, United Kingdom

**Sascha Ossowski**, University Rey Juan Carlos, Spain

**Joaquin Pena**, University of Seville, Spain

**Agostino Poggi**, DII – University of Parma, Italy

**Alexander Pokahr**, University of Hamburg, Germany

**Thomas Potok**, Oak Ridge National Lab, Afghanistan

**Jarogniew Rykowski**, Poznan University of Economics, Poland

**Marija Slavkovic**, University of Luxembourg, Luxembourg

**Stanislaw Stanek**, University of Economics in Katowice, Poland

**Niranjan Suri**, IHMC, USA

**Paolo Torroni**, University of Bologna, Italy

**Walter Truszkowski**, NASA, USA

**Rainer Unland**, University of Duisburg-Essen, ICB, Germany

**Andrzej Uszok**, IHMC, USA

**Salvatore Venticquie**, Second University of Naples, Italy

**Paulus Wahjudi**, Marshall University, USA

**Yu Zhang**, Trinity University, USA

**Antoine Zimmermann**, Digital Enterprise Research Institute, Ireland

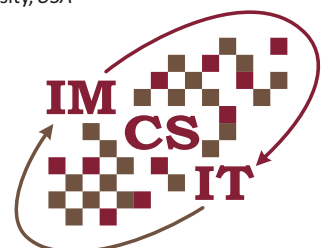
#### Organizing Committee:

**Costin Badica**, University of Craiova, Romania

**Maria Ganzha**, University of Gdansk and IBS PAN, Poland

**Marcin Paprzycki (Chairman)**, WSM and IBS PAN, Poland

**Shahram Rahimi**, Southern Illinois University, USA



#### Important dates:

31.05.2010 (May 31, 2010) – Full paper submission

12.07.2010 (July 12, 2010) – Notification of acceptance

23.08.2010 (August 23, 2010) – Camera-ready version of the accepted paper