Multi-Agent Systems
and Applications V

5th International
Central and Eastern European Conference
on Multi-Agent Systems, CEEMAS 2007
Leipzig, Germany, September 25-27, 2007
Proceedings
Preface

The aim of the CEEMAS conference series is to provide a biennial forum for the presentation of multi-agent research and development results. With its particular geographical orientation towards Central and Eastern Europe, CEEMAS has become an internationally recognized event with participants from all over the world. After the successful CEEMAS conferences in St. Petersburg (1999), Cracow (2001), Prague (2003) and Budapest (2005), the CEEMAS 2007 conference took place in Leipzig. The Program Committee of the conference series consists of established researchers from the region and renowned international colleagues, showing the prominent rank of CEEMAS among the leading events in multi-agent systems.

In the very competitive field of agent-oriented conferences and workshops, (such as AAMAS, EUMAS, CIA, MATES) CEEMAS is special in trying to bridge the gap between applied research achievements and theoretical research activities. The ambition of CEEMAS is to provide a forum for presenting theoretical research with an evident application potential, implemented application prototypes and their properties, as well as industrial case studies of successful (or unsuccessful) agent technology deployments. This is why the CEEMAS proceedings provide a collection of research and application papers. The technical research paper section of the proceedings (see pages 1–290) contains pure research papers as well as research results in application settings. The goal is to demonstrate the real-life value and commercial reality of multi-agent systems as well as to foster the communication between academia and industry in this field.

CEEMAS is also very special and unique because it is constantly contributing to building an agent research community. The Program Committee has decided to create a special collection of short papers that provide an opportunity to present ongoing research work with a potential of mature and higher impact research results in the near future. This allows researchers to expose their work for constructive criticism and discuss their projects with other experts in an early phase of their research. On the other hand this provides the audience with fresh, innovative and highly motivating ideas that may deserve further investigation.

The topics of the CEEMAS proceedings cover a wide range of areas such as: abstract and specific agent architectures, methods and modeling approaches for agent-oriented software engineering, agent communication and protocols. CEEMAS also features papers on applications from the field of healthcare, traffic management, learning, software development, game, production management, trade and negotiations.

We received 84 submissions, and each paper was reviewed by at least two independent reviewers or the General Co-chairs. Out of the submitted papers, 29 were accepted as full research papers and 17 as short poster papers.
Many individuals and institutions supported the organization of this conference and made CEEMAS 2007 a high-quality event. Our special thanks go first to the authors and invited speakers for their invaluable and strenuous work and contribution. Also, the work of the Program Committee members who accepted the heavy load of the review of a large number of contributions is gratefully acknowledged. We are especially thankful to the University of Leipzig for their organizational activities.

As a result, the present collection of papers provides a valuable resource for researchers in the field of multi-agent systems and open distributed systems in general.

July 2007

Hans-Dieter Burkhard
Gabriela Lindemann
László Z. Varga
Rineke Verbrugge
Organization

CEEMAS 2007 was co-located with the Software Agents and Services for Business, Research, and E-Sciences (SABRE) set of conferences organized by the Management Information Systems Institute and the Institute for Applied Informatics (InfAI) of the University of Leipzig.

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Table of Contents

Full Papers

A Multi-agent Approach for Range Image Segmentation ............... 1
  Smaine Mazouzi, Zahia Guessoum, Fabien Michel, and
  Mohamed Batouche

Abstractions of Multi-agent Systems ................................... 11
  Constantin Enea and Catalin Dima

Agent-Based Network Protection Against Malicious Code ............... 22
  Martin Rehák, Michal Pechouček, Jan Tožička, Magda Prokopová,
  David Medvigy, and Jiří Novotný

Agents Deliberating over Action Proposals Using the ProCLAIM
Model ................................................................................. 32
  Pancho Tolchinsky, Katie Atkinson, Peter McBurney,
  Sanjay Modgil, and Ulises Cortés

An Attacker Model for Normative Multi-agent Systems ............... 42
  Guido Boella and Leendert van der Torre

An Environment to Support Multi-Party Communications in
Multi-Agent Systems .............................................................. 52
  Julien Saunier and Flavien Balbo

An Interaction Protocol for Agent Communication .................... 62
  Gemma Bel-Enguix, M. Adela Grando, and
  M. Dolores Jiménez-López

Collaborative Attack Detection in High-Speed Networks ............. 73
  Martin Rehák, Michal Pechouček, Pavel Čeleda, Vojtěch Krmíček,
  Pavel Minařík, and David Medvigy

Commitment Monitoring in a Multiagent System ..................... 83
  Paola Spoletini and Mario Verdicchio

Competencies and Profiles Management for Virtual Organizations
Creation ............................................................................... 93
  Jiří Hodík, Jiří Vokřínek, Jiří Bíba, and Petr Bečvár

Complexity of Verifying Game Equilibria ............................... 103
  Emmanuel M. Tadjouddine
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component-Based Development of Secure Mobile Agents</td>
<td>113</td>
</tr>
<tr>
<td>Alvaro Moratalla and Sergi Robles</td>
<td></td>
</tr>
<tr>
<td>Design Patterns for Self-organising Systems</td>
<td>123</td>
</tr>
<tr>
<td>Luca Gardelli, Mirko Viroli, and Andrea Omicini</td>
<td></td>
</tr>
<tr>
<td>Experience with Feedback Control Mechanisms in Self-replicating Multi-Agent Systems</td>
<td>133</td>
</tr>
<tr>
<td>Sebnem Bora and Oguz Dikenelli</td>
<td></td>
</tr>
<tr>
<td>Exploring Social Networks in Request for Proposal Dynamic Coalition Formation Problems</td>
<td>143</td>
</tr>
<tr>
<td>Carlos Merida-Campos and Steven Willmott</td>
<td></td>
</tr>
<tr>
<td>Formalizing Context-Based Behavioural Compatibility and Substitutability for Role Components in MAS</td>
<td>153</td>
</tr>
<tr>
<td>Nabil Hameurlain</td>
<td></td>
</tr>
<tr>
<td>Governing Environments for Agent-Based Traffic Simulations</td>
<td>163</td>
</tr>
<tr>
<td>Michael Schumacher, Laurent Grangier, and Radu Jurca</td>
<td></td>
</tr>
<tr>
<td>Knowledge Driven Architecture for Home Care</td>
<td>173</td>
</tr>
<tr>
<td>Ákos Hajnal, David Isern, Antonio Moreno, Gianfranco Pedone, and László Zsolt Varga</td>
<td></td>
</tr>
<tr>
<td>MASL: A Logic for the Specification of Multiagent Real-Time Systems</td>
<td>183</td>
</tr>
<tr>
<td>Dmitry Bugaychenko and Igor Soloviev</td>
<td></td>
</tr>
<tr>
<td>Modeling of Agents in Organizational Context</td>
<td>193</td>
</tr>
<tr>
<td>Alexei Sharpanskykh</td>
<td></td>
</tr>
<tr>
<td>Motivations as an Abstraction of Meta-level Reasoning</td>
<td>204</td>
</tr>
<tr>
<td>Felipe Meneguzzi and Michael Luck</td>
<td></td>
</tr>
<tr>
<td>Jan Sudeikat and Wolfgang Renz</td>
<td></td>
</tr>
<tr>
<td>Simulating a Human Cooperative Problem Solving</td>
<td>225</td>
</tr>
<tr>
<td>Alexandre Pauchet, Amal El Fallah Seghrouchni, and Nathalie Chaignaud</td>
<td></td>
</tr>
<tr>
<td>Supporting Agent Organizations</td>
<td>236</td>
</tr>
<tr>
<td>Estefania Argente, Javier Palanca, Gustavo Aranda, Vicente Julian, Vicente Botti, Ana Garcia-Fornes, and Agustin Espinosa</td>
<td></td>
</tr>
</tbody>
</table>
The Agents’ Attitudes in Fuzzy Constraint Based Automated Purchase Negotiations
*Miguel A. Lopez-Carmona, Juan R. Velasco, and Ivan Marsa-Maestre*

Towards a Model Driven Process for Multi-Agent System
*Tarek Jarraya and Zahia Guessoum*

Towards an Epistemic Logic for Uncertain Agents
*Zining Cao*

Towards Approximate BGI Systems
*Barbara Dunin-Keplicz and Andrzej Szalas*

Verifying Dominant Strategy Equilibria in Auctions
*Emmanuel M. Tadjouddine and Frank Guerin*

**Short Papers**

Agent Environment and Knowledge in Distributed Join Calculus
*Sławomir P. Maludziński and Grzegorz Dobrowolski*

Agent-Based Architecture of Intelligent Distance Learning System
*Mikhail Pashkin*

An Architecture and Framework for Agent-Based Web Applications
*Alexander Pokahr and Lars Braubach*

Closing the Gap Between Organizational Models and Multi-Agent System Deployment
*Michael Köhler and Matthias Wester-Ebbinghaus*

Clustering Techniques in Automated Purchase Negotiations
*Miguel A. Lopez-Carmona, Juan R. Velasco, and Ivan Marsa-Maestre*

Cooperative CBR System for Sharing Student Models in Cooperative Intelligent Tutoring Systems
*Carolina González, Juan C. Burguillo, and Martín Llamas*

Decision Making System: Agent Diagnosing Child Care Diseases
*Vijay Kumar Mago, M. Syamala Devi, and Ravinder Mehta*

FIPA-Based Interoperable Agent Mobility
*Jordi Cucurull, Ramon Martí, Sergi Robles, Joan Borrell, and Guillermo Navarro*

HeCaSe2: A Multi-agent Ontology-Driven Guideline Enactment Engine
*David Isern, David Sánchez, and Antonio Moreno*
jTRASTO: A Development Toolkit for Real-Time Multi-Agent Systems .......................................................... 325
Martí Navarro, Vicente Julian, and Vicente Botti

Models and Tools for Mulan Applications ........................................ 328
Lawrence Cabac, Till Dörges, Michael Duvigneau,
Christine Reese, and Matthias Wester-Ebbinghaus

Multi-agent Architecture for Intelligent Tutoring Systems
Interoperability in Health Education ............................................. 331
Carolina González, Juan C. Burguillo, and Martín Llamas

Multi-agent Planning in Sokoban .................................................. 334
Matthew S. Berger and James H. Lawton

Ontology Matching in Communication and Web Services Composition
for Agent Community ............................................................ 337
Adam Luszpaj, Edward Nawarecki, Anna Zygmunt,
Jarosław Koźłak, and Grzegorz Dobrowolski

Plugin-Agents as Conceptual Basis for Flexible Software Structures .... 340
Lawrence Cabac, Michael Duvigneau, Daniel Moldt, and
Benjamin Schleinzer

Selection of Efficient Production Management Strategies Using the
Multi-agent Approach .................................................................. 343
Jarosław Koźłak, Jan Marszałek, Leszek Siwik, and Maciej Zygmunt

The Impact of Network Topology on Trade in Bartering
Networks – Devising and Assessing Network Information Propagation
Mechanisms ................................................................. 346
David Cabanillas and Steven Willmott

Author Index ................................................................. 349