

Table of Contents

Requirements Engineering

The Agent at the Center of the Requirements Engineering Process	1
<i>Paolo Bresciani and Paolo Donzelli</i>	
Lexicon Based Ontology Construction	19
<i>Karin Koogan Breitman and Julio Cesar Sampaio do Prado Leite</i>	
Multi-agent Systems and Security Requirements Analysis	35
<i>Paolo Bresciani, Paolo Giorgini, Haralambos Mouratidis, and Gordon Manson</i>	

Software Architecture and Design

Separation of Concerns in Multi-agent Systems: An Empirical Study	49
<i>Alessandro Garcia, Cláudio Sant'Anna, Christina Chavez, Viviane Torres da Silva, Carlos J.P. de Lucena, and Arndt von Staa</i>	
Architecting the Design of Multi-agent Organizations with Proto-frameworks	73
<i>Andrés Díaz Pace, Marcelo Campo, and Alvaro Soria</i>	
A Basic Taxonomy for Role Composition	92
<i>Elke Steegmans, Kurt Schelfhout, Tom Holvoet, Yolande Berbers, Paul Valckenaers, and Bart Saint Germain</i>	

Modeling

Object-Oriented Modeling Approaches to Agent-Based Workflow Services	111
<i>M. Brian Blake and Hassan Gomaa</i>	
Using the MAS-ML to Model a Multi-agent System	129
<i>Viviane Torres da Silva, Ricardo Choren, and Carlos J.P. de Lucena</i>	
Software Engineering Challenges for Mutable Agent Systems	149
<i>Ladislau Bölöni, Majid Ali Khan, Xin Bai, Guoqiang Wang, Yongchang Ji, and Dan C. Marinescu</i>	

Dependability

Improving Exception Handling in Multi-agent Systems	167
<i>Frédéric Souchon, Christophe Dony, Christelle Urtado, and Sylvain Vauttier</i>	

On Manageability and Robustness of Open Multi-agent Systems 189
Naftaly H. Minsky and Takahiro Murata

Security Mechanisms for Mobile Agent Platforms
Based on SPKI/SDSI Chains of Trust 207
*Michelle S. Wangham, Joni da Silva Fraga, Rafael R. Obelheiro,
Galeno A. Jung, and Elizabeth Fernandes*

MAS Frameworks

Farm: A Scalable Environment for Multi-agent Development
and Evaluation 225
Bryan Horling, Roger Mailler, and Victor Lesser

Role-Based Approaches for Engineering Interactions
in Large-Scale Multi-agent Systems 243
Giacomo Cabri, Luca Ferrari, and Franco Zambonelli

Evaluating Agent Architectures: Cougaar, Aglets and AAA 264
*Ian Gorton, Jereme Haack, David McGee, Andrew Cowell,
Olga Kuchar, and Judi Thomson*

Author Index 279

Software Engineering for Multi-Agent Systems II
Research Issues and Practical Applications
Lucena, C.; Garcia, A.; Romanovsky, A.; Castro, J.;
Alencar, P.S.C. (Eds.)
2004, XII, 284 p., Softcover
ISBN: 978-3-540-21182-2