

Table of Contents

Section I: Agent Theories

Reasoning about Visibility, Perception and Knowledge	1
Michael Wooldridge and Alessio Lomuscio	
A Spectrum of Modes of Knowledge Sharing between Agents	13
Alessio Lomuscio and Mark Ryan	
Observability-Based Nested Belief Computation for Multiagent Systems and its Formalization	27
Hideki Isozaki and Hirofumi Katsuno	
On the Correctness of PRS Agent Programs	42
Wayne Wobcke	
Incorporating Uncertainty in Agent Commitments	57
Ping Xuan and Victor R. Lesser	

Section II: Agent and System Architectures

Rational Cognition in OSCAR	71
John L. Pollock	
Agents for Information Broadcasting	91
Esther David and Sarit Kraus	
On the Evaluation of Agent Architectures	106
Henry Hexmoor, Marcus Huber, Jörg P. Müller, John Pollock and Donald Steiner	
Toward a Methodology for AI Architecture Evaluation	117
Scott A. Wallace and John E. Laird	
Reactive-System Approaches to Agent Architectures	132
Jaeho Lee	
A Planning Component for RETSINA Agents	147
Massimo Paolucci, Onn Shehory, Katia Sycara, Dirk Kalp, and Anandee Pannu	
A Scalable Agent Location Mechanism	162
Onn Shehory	

Section III: Agent Languages

Reactivity in a Logic-Based Robot Programming Framework	173
Yves Lespérance, Kenneth Tam, and Michael Jenkin	
Extending ConGolog to Allow Partial Ordering	188
Chitta Baral and Tran Cao Son	

Operational Semantics of Multi-agent Organisations	205
Jacques Ferber and Olivier Gutknecht	
Open Multi-agent Systems: Agent Communication and Integration	218
Rogier M. van Eijk, Frank S. de Boer, Wiebe van der Hoek, and John-Jules Ch. Meyer	
Toward Team-Oriented Programming	233
David V. Pynadath, Milind Tambe, Nicolas Chauvat, and Lawrence Cavedon	
Section IV: Agent-Oriented Software Engineering	
Agent-Oriented Software Engineering	248
Stefan Bussmann, Paolo Ciancarini, Keith Decker, Michael Huhns, and Michael Wooldridge	
Multiagent System Engineering: The Coordination Viewpoint ...	250
Paolo Ciancarini, Andrea Omicini and Franco Zambonelli	
Using Multi-context Systems to Engineer Executable Agents	260
Jordi Sabater, Carles Sierra, Simon Parsons, and Nicholas R. Jennings	
Structuring BDI Agents in Functional Clusters	277
Paolo Busetta, Nicholas Howden, Ralph Ronnquist, and Andrew Hodgson	
Towards a Distributed, Environment-Centered Agent Framework	290
John R. Graham and Keith S. Decker	
Section V: Decision Making in a Social Context	
Variable Sociability in Agent-Based Decision Making	305
Lisa Hogg and Nicholas R. Jennings	
Cooperation and Group Utility	319
Guido Boella, Rossana Damiano, and Leonardo Lesmo	
Relating Quantified Motivations for Organizationally Situated Agents	334
Thomas Wagner and Victor Lesser	
The Role and the Impact of Preferences on Multiagent Interaction	349
Sviatoslav Brainov	
Deliberate Normative Agents: Principles and Architecture	364
Cristiano Castelfranchi, Frank Dignum, Catholijn M. Jonker, and Jan Treur	
Subject Index	379
Author Index	381



<http://www.springer.com/978-3-540-67200-5>

Intelligent Agents VI. Agent Theories, Architectures,
and Languages
6th International Workshop, ATAL'99 Orlando, Florida,
USA, July 15-17, 1999 Proceedings
Jennings, N.R.; Lesperance, Y. (Eds.)
2000, XII, 380 p., Softcover
ISBN: 978-3-540-67200-5