## Table of Contents

### Personal Assistance: Interaction and Avatars

**Invited Contribution**

Interactive Integration of Information Agents on the Web ....................... 1  
*Y. Kitamura, T. Yamada, T. Kokubo, Y. Mawarimichi, T. Yamamoto, T. Ishida* (Japan)

Improving Communication in 3D Virtual Environments by Means of Task Delegation in Agents ............................................. 14  
*R. Imbert, A. de Antonio, J. Segovia* (Spain)

Wizard of Oz Method for Learning Dialog Agents .............................. 20  
*M. Okamoto, Y. Yang, T. Ishida* (Japan)

### Information Search and Recommendation

Supporting User-Profiled Semantic Web-Oriented Search ....................... 26  
*L. Palopoli, D. Rosaci, G. Terracina, D. Ursino* (Italy)

Recommending a Trip Plan by Negotiation with a Software Travel Agent . . 32  
*V.-W. Soo, S.-H. Liang* (Taiwan)

CoWing: A Collaborative Bookmark Management System ....................... 38  
*R. Kanawati, M. Malek* (France)

Context-Aware Agents for Personal Information Services ...................... 44  
*E. Plaza, J.-L. Arcos* (Spain)

### Data Warehousing and Mining

**Invited Contribution**

Data Warehouse Quality and Agent Technology ................................. 56  
*M. Jarke* (Germany)

Decision Trees for Multiple Abstraction Levels of Data ...................... 76  
*D. Lee, M. Jeong* (Korea)
Collaborative Information Agents: 
Systems and Applications

Supporting Information Integration with Autonomous Agents ...............88
S. Bergamaschi, G. Cabri, F. Guerra, L. Leonardi, 
M. Vincini, F. Zambonelli (Italy)

Using Agents in Performing Multi-site Queries .........................100
E. Di Nitto, C. Ghezzi, M. Sabba, P. Selvini (Italy)

Extending a Multi-agent System for Genomic Annotation ...............106
K. Decker, S. Khan, C. Schmidt, D. Michaud (USA)

Domain-Independent Ontologies for Cooperative Information Agents ......118
M. Gomez, C. Abasolo, E. Plaza (Spain)

Trading Internet Agents: Auctions

An Autonomous Bidding Agent for Simultaneous Auctions ..............130
N. Fornara, L.M. Gambardella (Switzerland)

Optimality and Risk in Purchase from Multiple Auctions ..............142
O. Shehory (Israel)

Cryptographic Protocols for Secure Second-Price Auctions ............154
F. Brandt (Germany)

Trading Internet Agents: 
Strategies, Negotiation, and Design

Equilibria Strategies for Selecting Sellers and Satisfying Buyers ....166
C.V. Goldman, S. Kraus, O. Shehory (Israel, USA)

On the Logical Aspects of Argument-Based Negotiation among Agents ....178
L. Brito, P. Novais, J. Neves (Portugal)

Introducing a Multi-agent, Multi-criteria Methodology for Modeling 
Electronic Consumer’s Behavior: The Case of Internet Radio ..........190
N. Manouselis, N.F. Matsatsinis (Greece)
Modeling Commercial Knowledge to Develop Advanced Agent-Based
Marketplaces for E-Commerce ............................................ 196
M. Molina (Spain)

Arms Race within Information Ecosystems .......................... 202
B. Carlsson, R. Gustavsson (Sweden)

Issues of Collaboration and Coordination

INVITED CONTRIBUTION (EXTENDED ABSTRACT)
Information Agents: The Social Nature of Information
and the Role of Trust ......................................................... 208
C. Castelfranchi (Italy)

A Framework for the Exchange and Installation of Protocols
in a Multi-agent System .................................................. 211
T. Iwao, Y. Wada, M. Okada, M. Amamiya (Japan)

Ontology Negotiation as a Basis for Opportunistic Cooperation
between Intelligent Information Agents ............................... 223
S.C. Bailin, W. Truszkowski (USA)

A Mechanism for Temporal Reasoning by Collaborative Agents ........ 229
M. Hadad, S. Kraus (Israel, USA)

Agent Coordination Infrastructures for Virtual Enterprises
and Workflow Management .................................................. 235
A. Ricci, E. Denti, A. Omicini (Italy)

Information Agents for Mobile and Wireless Environments:
Practical Issues and Directions

INVITED CONTRIBUTION (EXTENDED ABSTRACT)
Mobile Agents: State of the Art and Research Opportunities .......... 247
G.P. Picco (Italy)

Enabling FIPA Agents on Small Devices .............................. 248
G. Adorni, F. Bergenti, A. Poggi, G. Rimassa (Italy)

Towards Efficient and Reliable Agent Communication
in Wireless Environments .................................................. 258
H. Helin, M. Laukkanen (Finland)
Table of Contents

INVITED CONTRIBUTION
Information Agents for Mobile and Embedded Devices ................. 264
T. Finin, A. Joshi, L. Kagal, O. Ratsimore, V. Korolev, H. Chen (USA)

Author Index .............................................................. 287
Cooperative Information Agents V
5th International Workshop, CIA 2001, Modena, Italy,
September 6-8, 2001, Proceedings
Klusch, M.; Zambonelli, F. (Eds.)
2001, CCCIV, 292 p., Softcover
ISBN: 978-3-540-42545-8