# Table of Contents

## Cooperation

Flexible Multi-agent Collaboration Using Pattern Directed Message Collaboration of Field Reactor Model .......................... 1
Tadashige Iwao, Makoto Okada, Yuji Takada and Makoto Amamiya

Reliable Agent Communication – A Pragmatic Perspective ................. 16
David Kinny

Formal Semantics of Acknowledgements, Agreements and Disagreements ... 32
Norihiro Ogata

Making Rational Decisions in N-by-N Negotiation Games with a Trusted Third Party ..................................................... 47
Shih-Hung Wu and Von-Wun Soo

The Security Mechanism in Multiagent System AOSDE ....................... 62
Zhongzhi Shi, Ju Wang and Hu Cao

## Mobility

Remote Messaging Mechanism Supporting Agent Mobility Based on CORBA ................................................................. 72
Byung-Rae Lee, Kyung-Ah Chang and Tai-Yun Kim

Persisting Autonomous Workflow for Mobile Agents Using a Mobile Thread Programming Model .............................. 84
Minjie Zhang and Wei Li

Mobile Robot Navigation by Distributed Vision Agents .................... 96
Takushi Sogo, Hiroshi Ishiguro and Toru Ishida

## Learning

Rationality of Reward Sharing in Multi-agent Reinforcement Learning .... 111
Kazuteru Miyazaki and Shigenobu Kobayashi

How to Design Good Rules for Multiple Learning Agents in Scheduling Problems? ............................................. 126
Keiki Takadama, Masakazu Watabe, Katsunori Shimohara and Shinichi Nakasuka

Hierarchical Multi-agent Organization for Text Database Discovery ........ 141
Yong S. Choi, Jaeho Lee and Suk I. Yoo
Interfacing

Predicting User Actions Using Interface Agents with Individual User Models .................................................. 154
Jung-Jin Lee and Robert McCartney

Gleams of People: Monitoring the Presence of People with Multi-agent Architecture ........................................ 170
Takeshi Ohguro, Sen Yoshida and Kazuhiro Kuwabara

System Design

Distributed Fault Location in Networks Using Learning Mobile Agents .......... 182
Tony White and Bernard Pagurek

Designing Multi-Agent Reactive Systems: A Specification Method Based on Reactive Decisional Agents .................................................. 197
Bouchaib Bounabat, Rahal Romadi and Salah Labhalla

A Class of Isomorphic Transformations for Integrating EMYCIN-Style and PROSPECTOR-Style Systems into a Rule-Based Multi-Agent System .................................................. 211
Xudong Luo, Chengqi Zhang and Ho-fung Leung

An Agent Architecture for Strategy-Centric Adaptive QoS Control in Flexible Videoconference System ............... 226
Takuo Suganuma, SungDoke Lee, Takuji Karakashi, Tetsuo Kinoshita and Norio Shiratori

Author Index ............................................................. 241
Approaches to Intelligent Agents
Second Pacific Rim International Workshop on
Multi-Agents, PRIMA'99, Kyoto, Japan, December 2-3,
1999 Proceedings
Nakashima, H.; Zhang, C. (Eds.)
1999, XII, 248 p., Softcover
ISBN: 978-3-540-66823-7