

Table of Contents

Ad-hoc Networks and Applications

Topology Discovery in Ad Hoc Wireless Networks Using Mobile Agents	1
<i>Romit Roy Choudhury, Somprakash Bandyopadhyay, Krishna Paul (Haldia Institute of Technology, Pricewaterhousecoopers Ltd., Cognizant Technology Solutions, India)</i>	
Mobile Code, Adaptive Mobile Applications, and Network Architectures	17
<i>Salim Omar, Xinan Zhou, Thomas Kunz (Carleton University, Canada)</i>	
Toward a Mobile Work Environment	29
<i>Larbi Esmahi, Roger Impey, Ramiro Liscano (NRC, Mitel Corporation, Canada)</i>	

Network Management

Handling Subscription in a Mobile Agent-Based Service Environment for Internet Telephony: Swapping Agents	49
<i>Roch H. Glitho, Bertrand E. Lenou, Samuel Pierre (Ericsson, Ecole Polytechnique, Canada)</i>	
Mobile Network Domain Agency for Managing Network Resources	67
<i>Farag Sallabi, Ahmed Karmouch (University of Ottawa, Canada)</i>	
Partitioning Applications with Agents	79
<i>Oskari Koskimies, Kimmo Raatikainen (University of Helsinki, Finland)</i>	
Evaluating the Network Performance Management Based on Mobile Agents	95
<i>Marcelo Goncalves Rubinstein, Otto Carlos M. B. Duarte, Guy Pujolle (Universidade Federal do Rio de Janeiro, Brazil, Université de Versailles-St Quentin, France)</i>	

Architecture and Methodologies – 1

Visualizing Mobile Agent Executions	103
<i>Yi Wang, Thomas Kunz (Carleton University, Canada)</i>	
Towards Policy-Driven Agent Development and Management	115
<i>Larry Korba, Fuhua Lin (NRC, Canada)</i>	

Modeling an OMG-MASIF Compliant Mobile Agent Platform
with the RM-ODP Engineering Language 129
Florin Muscutariu, Marie-Pierre Gervais
(Université Pierre et Marie Curie - LIP6, France)

Active Networks

Active Networks for IPv6 Communication Redirection 139
Mouhamadou Lamine Diagne, Thomas Noel, Jean-Jacques Pansiot,
(Université Louis Pasteur - LSIT, France)

An Agent-Inspired Active Network Resource Trading Model
Applied to Congestion Control 151
Lidia Yamamoto, Guy Leduc (Université de Liège, Belgique)

On Synchronization in a Mobile Environment 171
Anca Rarau, Ioan Salomie, Kalman Puzsai
(Technical University of Cluj-Napoca, Romania)

YAAP: Yet Another Active Platform 185
Nicolas Rouhana, Samer Boustany, Eric Horlait (University St-Joseph, Libanon,
Université Pierre et Marie Curie - LIP6, France)

Agent-Based Applications

Searching for Music with Agents 195
Natasha Kravtsova, Andre Meyer (Philips Research, Netherlands)

Use of Mobile Agents for IPR Management and Negotiation 205
Isabel Gallego, Jaime Delgado, Roberto García
(Universitat Politècnica de Catalunya, Universitat Pompeu Fabra, Spain)

The Effects of Mobile Agent Performance on MP3 Streaming Applications 215
B. Thai, A. Seneviratne (University of New South Wales, Australia)

Semi-trusted Hosts and Mobile Agents:
Enabling Secure Distributed Computations 219
Bart De Decker, Frank Piessens, Erik Van Hoeymissen, Gregory Neven
(Université de Louvain, Belgique)

Architecture and Methodologies – 2

Nomadic Users' Support in the MAP Agent Platform 233
Orazio Tomarchio, Lorenzo Vita, Antonio Puliafito
(University of Messina, University of Catania, Italy)

Keyphrase-Based Information Sharing in the ACORN Multi-agent Architecture	243
<i>Hui Yu, Ali A. Ghorbani, Virendra C. Bhavsar, Stephen Marsh (NRC, Canada)</i>	
Agents Based Implementation of Personalised News Delivery Service	257
<i>Henryka Jormakka, Toni Jussila, Kirsi Valtari (Technical Research Center, Finland)</i>	
Author Index	271