

MATA'05

2nd International Workshop on Mobility Aware Technologies and Applications
October 17-19, 2005, Montréal

Technical Program

Monday October 17, 2005

7:30 Registration

8:30 – 12:30 Tutorials: T2 & T3

Tutorial-T2: Context Aware Mobile Communications and Ambient Networks

Speakers: Ahmed Karmouch, and Nancy Samaan

School of Information Technology and Engineering University of Ottawa, Ottawa, Canada

Tutorial-T3: The IP Multimedia (Sub) System as Target Service Delivery Platform for Mobile All-IP Networks.

Speaker: Thomas Magedanz, TU Berlin / Fraunhofer FOKUS, Germany

14:00- 18:00 Tutorials: T1

T1: Peer-to-Peer Networking

Speaker: Raouf Boutaba, University of Waterloo, Canada

18:00 Reception

Monday October 18, 2005

7:30 Registration

9:00 Opening Remarks

9:30 Keynote

10:30 Coffee Break

11:00 Session 1A: NGN Service Delivery Platform Technologies for Multimedia Services

Fixed Mobile Convergence: 3 Words, Many Perspectives

Italo Milanese, Carlo Alberto Licciardi, Telecom Italia LAB, Italy

Mobile Agents for Testing Web Services in Next Generation Networks

Abdelghani Benharref, Roch Gliotho, Rachida Dssouli, Concordia University & Ericsson, Canada

Design and Implementation of an Open IMS Core

Dragos Vingarzan, Peter Weik, Thomas Magedanz, FOKUS, Germany

Widget Integration Framework for Service Discoverer

Eun Seok Ryu, Korea University, Korea

11:00 - Session 1B (short papers) - Context Awareness

Enhanced Communication Services through Context Integration

Romelia. Plesa, Luigi Logrippo, University of Ottawa, Canada

Seamless Networking and QoS Provisioning for Context-Aware Services in Heterogeneous Environments

Irene Sykouna, Maria Chantzara, National Technical University of Athens, Greece

Policy-governed Service Enabling for Future Networks

Florian Winkler, Anett Schuelke, NEC Network Laboratories Heidelberg, Germany

WIPI-based Light-Weight Middleware Model for Secure Mobile RFID Services

Park Namje, ETRI, Korea

12:30 Lunch

13:30 Session 2A: Mobility Aware Middleware & Mobile Agent Platform I

Protecting Mobile Agent Loops

Jordi Cucurull, Joan Ametller-Esquerra, Jose Antonio Ortega-Ruiz, Sergi Robles, Joan Borrell, Autonomous University of Barcelona, Spain

A new Protocol for Protecting a Mobile Agent Using a Reference Clone

Lotfi Benachenhou, Samuel Pierre, Polytechnique Montréal, Canada

Integrating a New Mobility Service into the Jade Agent Toolkit

Peter Braun, Ryszard Kowalczyk, Duc Trinh, Swinburne University of Technology, Australia

SCTP based Framework for Mobile Web Agent,

Yong-Jin Lee, Woosong University, Korea

Mohammed Atiquzzaman University of Oklahoma, USA

13:30 Session 2B: Security Technologies for NGN and Context Aware Environments

Network Access Security Management (NASM) Model for Next Generation Mobile Telecommunication Networks

Muhammad Sher, FOKUS, Germany

APHIDS++: Improvements on A Mobile Agent-Based Programmable Hybrid Intrusion Detection System

Mohammed Alam, Abhishek Gupta, Jake Wires, Song Vuong, University of British Columbia, Canada

An Authorisation and Privacy Framework for Context-aware Networks

Raffaele Giaffreda, British Telecom, UK; Hannes Tschofenig, Siemens, Germany

Christoph Reichert, Fraunhofer FOKUS, Germany, Theo Kanter, Ericsson, Sweden

Abstraction for Privacy in Context-Aware Environments

Eun-Sun Cho, Kang-Woo Lee, Manpyo Hong, Chungbuk National University, Korea

15:00 Coffee Break

15:30 Session 3A: Context Aware Networks

ContextWare Support for Network and Service Composition and Self-Adaptation

Roel Ocampo, Lawrence Cheng, Zhaohong Lai, Alex Galis, University College London, UK

Challenges in Modeling and Using Quality of Context (QoC)

Michael Krause, Iris Hochstatter, Ludwig Maximilian University of Munich, Germany

Challenges in Modelling and Disseminating Context Information in Ambient Networks

Dineshbalu Balakrishnan, Ahmed Karmouch University of Ottawa, Canada

May El Barachi, Roch Glitho, Concordia University, Canada

15:30: Session 3B: Mobility Aware Middleware & Mobile Agent Platform II

A Secure Protocol for Mobile Agents in Hostile Environment

Abdelhamid Ouardani, Samuel Pierre, Hanifa Boucheneb, École Polytechnique de Montréal, Canada

Using multiple communication channels in a mobile agent platform

Theodoros Athanaileas, Ioannis Foukarakis, Dimitra Kaklamani, Iakovos Venieris, National Technical University of Athens, Greece

Distributed Authorization Framework for Mobile Agents

Guillermo Navarro, Joan Borrell, Jose Antonio Ortega-Ruiz, Joan Ametller-Esquerria, Universitat Autònoma de Barcelona, Spain

16:30 Session 4A: Context Aware Devices and Systems

Facilitating context-awareness through hardware personalization devices: The Simplicity Device

John Papanis, Sofia Kapellaki, Eleftherios Koutsoloukas, Nikolaos Dellas, George Prezerakos, Iakovos Venieris, National Technical University of Athens, Greece

A Context-Aware Negotiation Model for M-Commerce

Fernando Matos, Edmundo Madeira, State University of Campinas, Brazil

Collection and Object Synchronization Based on Context Information

Sasu Tarkoma, Tancred Lindholm, Jaakko Kangasharju, Helsinki Institute for Information Technology, Finland

A Novel Approach Towards Autonomic Management in Context-Aware Communication Systems

Nancy Samaan, Ahmed Karmouch, University of Ottawa, Canada

16:30 Session 4B (short papers) – Mobility & Location Awareness

Designing Personal Area Network Agent for Ubiquitous Contents

Takuya Yamauchi, Toru Iwatake, Keio University, Japan

Group Mobility Modeling in Mobile Ad Hoc Networks using Pedestrian Tracked Data

Werner Creixell, University of Tokyo, Japan

A Study of the Mobile Agents Liveness Properties on MobiGrid

R. Barbosa et.al., Universidade de São Paulo, Brazil

Zone-Based Service Architecture for Wireless Ad Hoc Networks

I. Jeong, Information and Communications University, Korea

Detection of Port Scans on Myrinet cluster

Seemit Bharti, V. Riham, Pamjam University, India

18:00 Adjourn

19:30 Dinner

Wednesday October 19, 2005

8:30 Registration

9:00 Session 5: Wireless Ad-hoc & Sensor Networks

Secure and Scalable Routing Protocol for Mobile Ad-hoc Networks –
Namhi Kang, Dasan Networks Inc., Korea

Low Energy Adaptive Connectionist Clustering for Wireless Sensor Networks
Dehni Lahcene, LIPN- University of Paris 13, France

A Cross- Layer Approach For Publish/Subscribe In Mobile Ad Hoc Networks
Alessio Vecchio, Marco Avvenuti, Giovanni Turi, University of Pisa, Italy

An Adaptive Call Admission Control to Support Mobility in Next Generation Wireless Network
Seo Joo Hwan, Lee Jung Seok, Ki-jun Han, National University, China

10:30 Coffee Break

11:00 Session 6: Solutions for Wireless Networks

A Network-Aware Truncating Module for Scalable Streams Saving Bandwidth for Overused Networks
Bertrand Mathieu, Yannick Carlinet, Dominique Massaloux, Balazs Kövesi, David Deleam; France Telecom R&D, France

A Dynamic Resource Allocation Scheme to Providing QoS in Packet-Switched Cellular Networks
Hermes Del Monego, Eliane Bodanese, Luiz Nacamura Júnior, Richard Demo Souza, CEFET-PR, UK

Management Of Aggregation Networks For Broadband Internet Access In Fast Moving Trains
Frederic Van Quickenborne, Filip De Greve, Filip De Turck, Ingrid Moerman, Piet Demeester, University of Ghent, Belgium

Competitive access to competitive wireless networks: A simulation model for the dynamic allocation of network resources
Fernando Beltran, Matthias Roggendorf, University of Auckland, New Zealand

12:30 Lunch

13:30- Session 7: Policy-based Management & Active Networks

Service Deployment in Active Networks Based on a P2P System

André Cardoso, Bertrand Mathieu, Mikael Salaun, Ahmed Serhrouchni, ENST-Paris / France Telecom, France

Adaptive Content for the Mobile User: A Policy-Based Approach

Alvin Yew, Antonio Liotta, University of Essex, UK

A Probabilistic Heuristic For Conflict Detection In Policy Based Management of Diffserv Networks

Moungla Hassine, LIPN - University of Paris13, France

Francine Krief, University of Bordeaux, France

14: 30 Session 8: Mobility Management & Mobile Applications

Analysis of Movement Detection Process for IPv6 Mobile Nodes

Youn-Hee Han, Seung-Hee Hwang, Samsung Advanced Institute of Technology, Korea

RAPOSI Rapidly Installable Positioning System For Indoor Environments

Florian Schreiner, Holger Ziemek FOKUS, Germany

Application-independent Session Mobility between User Terminals

Stefan Schmid, Priya Vijayakumar, Marcus Brunner, NEC Europe Ltd., Germany

15:30 Coffee Break

16:00 Session 9: Ambient Networks & Smart End Systems

Towards Ambient Networks Management

Marcus Brunner, Alex Galis, IST-Ambient Network project, Europe

A Co-Designed Hardware/Software Architecture For Augmented Materials

Simon Dobson, Kieran Delaney, Kafil Razeeb, Sergey Tsvetkov, University College Dublin, Ireland

Mobility-Aware Coordination in a WLAN Hot-spot Area -

Karin, Hummel, University of Vienna, Austria

17:00 Closing Remarks