ICDCS 2005 Workshops

Proceedings

25th IEEE International Conference on Distributed Computing Systems Workshops

6-10 June 2005

Columbus, Ohio, USA

Sponsored by

IEEE Computer Society Technical Committee on Distributed Processing (TCDP)





Los Alamitos, California

Washington

Brussels

Tokyo

Copyright © 2005 by The Institute of Electrical and Electronics Engineers, Inc. All rights reserved.

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries may photocopy beyond the limits of US copyright law, for private use of patrons, those articles in this volume that carry a code at the bottom of the first page, provided that the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

Other copying, reprint, or republication requests should be addressed to: IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, P.O. Box 133, Piscataway, NJ 08855-1331.

The papers in this book comprise the proceedings of the meeting mentioned on the cover and title page. They reflect the authors' opinions and, in the interests of timely dissemination, are published as presented and without change. Their inclusion in this publication does not necessarily constitute endorsement by the editors, the IEEE Computer Society, or the Institute of Electrical and Electronics Engineers, Inc.

IEEE Computer Society Order Number P2328 ISBN 0-7695-2328-5 ISSN 1545-0678

Additional copies may be ordered from:

IEEE Computer Society
Customer Service Center
10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, CA 90720-1314
Tel: + 1 800 272 6657
Fax: + 1 714 821 4641
http://computer.org/cspress-csbooks@computer.org

IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
Tel: + 1 732 981 0060
Fax: + 1 732 981 9667
http://shop.ieee.org/store/customer-service@ieee.org

IEEE Computer Society
Asia/Pacific Office
Watanabe Bldg., 1-4-2
Minami-Aoyama
Minato-ku, Tokyo 107-0062
JAPAN
Tel: +81 3 3408 3118
Fax: +81 3 3408 3553
tokyo.ofc@computer.org

Individual paper REPRINTS may be ordered at: reprints@computer.org

Editorial production by Danielle C. Martin

Cover art production by Joseph Daigle/Studio Productions

Printed in the United States of America by TBA





IEEE Computer Society

Conference Publishing Services

http://www.computer.org/proceedings/

Table of Contents

25th IEEE International Conference on Distributed Computing Systems – Workshops Message from the Workshops Chair Message from the ADSN Chairs Message from the SDCS Chairs Message from the SIUMI Chairs.... Message from the DEBS Chairs Message from the IWSAWC Chairs Message from the MDC Chairs Message from the MNSA Chairs Message from the MPPS Chairs Message from the WWAN Chairs Workshop Committee Members Reviewers Fourth International Workshop on Assurance in Distributed Systems and Networks **ADSN Session 1: Fault-Tolerance and Security** Adding Confidentiality to Application-Level Multicast by Leveraging the Multicast Overlay C. Abad, I. Gupta, and W. Yurcik A Byzantine Fault-Tolerant Mutual Exclusion Algorithm and Its Application to Byzantine Fault-Tolerant Storage Systems.... J. Kim and Y. Manabe Zmail: Zero-Sum Free Market Control of Spam B. Kuipers, A. Liu, A. Gautam, and M. Gouda Session 2: Reliability and Stabilization State Checksum and Its Role in System Stabilization C-T. Huang and M. Gouda An Optimal Snap-Stabilizing Multi-wave Algorithm..... D. Bein, A. Datta, M. Karaata, and S. Zaman Reconciling the Theory and Practice of (Un)Reliable Wireless Broadcast G. Chockler, M. Demirbas, S. Gilbert, N. Lynch, C. Newport, and T. Nolte **Session 3: Load Balancing** Dynamic Load Balancing Using Network Transferable Computer..... M. Hisayuki, S. Inoue, Y. Kakuda, K. Toda, and K. Suzaki Implementation Issues of Parallel Downloading Methods for a Proxy System..... J. Funasaka, A. Kawano, and K. Ishida Voting Multi-dimensional Data with Deviations for Web Services under Group Testing..... W.-T. Tsai, Y. Chen, D. Zhang, and H. Huang

Session 4: Adaptive Systems A New TCP Congestion Control Method Considering Adaptability over Satellite Internet H. Obata, S. Takeuchi, and K. Ishida Improving Mutipath Reliability in Topology-Aware Overlay Networks C. Tang and P. McKinley Bandwidth Clustering for Reliable and Prioritized Network Routing Using Split Agent-Based Method C. Mavromoustakis and H. Karatza Second International Workshop on Security in Distributed Computing Systems **SDCS** Session 1: Network Attack Traceback InFilter: Predictive Ingress Filtering to Detect Spoofed IP Traffic..... A. Ghosh, L. Wong, G. Di Crescenzo, and R. Talpade Active Timing-Based Correlation of Perturbed Traffic Flows with Chaff Packets P. Peng, P. Ning, D. Reeves, and X. Wang Specifying Information-Flow Controls H. Chivers and J. Jacob Session 2: Internet Infrastructure Security and Intrusion Detection MAFIC: Adaptive Packet Dropping for Cutting Malicious Flows to Push Back DDoS Attacks.... Y. Chen, Y.-K. Kwok, and K. Hwang Performing BGP Experiments on a Semi-realistic Internet Testbed Environment.... K. Zhang, S.-T. Teoh, S.-M. Tseng, R. Limprasittipom, K.-L. Ma, S. Wu, and C.-N. Chuah A Replication- and Checkpoint-Based Approach for Anomaly-Based Intrusion Detection and Recovery. A. Agbaria and R. Friedman Configurable Middleware-Level Intrusion Detection for Embedded Systems E. Næss, D. Frincke, A. McKinnon, and D. Bakken Session 3: Digital Forensics & Covert Channel Analysis Forensix: A Robust, High-Performance Reconstruction System..... A. Goel, W.-C. Feng, D. Maier, W.-C. Feng, and J. Walpole A Simple Framework for Distributed Forensics.... Y. Tang and T. Daniels Capacity Estimation of Non-synchronous Covert Channels.... Z. Wang and R. Lee

Session 4: Wireless and Sensor Network Security
Increasing Attack Resiliency of Wireless Ad Hoc and Sensor Networks
Defending against Sybil Attacks in Sensor Networks
Session 5: Work-in-Progress (WIP) Session
Adaptive Real-Time Anomaly Detection with Improved Index and Ability to Forget
Trust Framework for P2P Networks Using Peer-Profile Based Anomaly Technique
A Topologically-Aware Worm Propagation Model for Wireless Sensor Networks
Analysis of Security Protocols with Certificate over Open Networks: Electronic Payment System
Real-Time Protection against DDoS Attacks Using Active Gateways
First International Workshop on Services and Infrastructures for the Ubiquitous and Mobile Internet
SIUMI
Identification and Location Management
A Fast Mobile Node Configuration Using Address Caching in Hybrid Wireless Networks
Indoor and Outdoor Location Based Services for Portable Wireless Devices
A Sensor-Based Tracking System Using Witnesses
Power Awareness and Wireless Networks
Probability Based Power Aware Error Resilient Coding
Using a Fairness Monitoring Service to Improve Load-Balancing in DSR
FPGA Based Communication Security for Wireless Sensor Networks

Middleware Support for the Mobile Internet
An Intermediary Software Infrastructure for Edge Services
A Distributed Architecture for Management and Retrieval of Extended Points of Interest
Service Description for Pervasive Service Discovery
Mobile Proxies for Proactive Buffering in Wireless Internet Multimedia Streaming
Generating Mobile Agent Securely by Using MASL
Web Services and Service Composition
Integrating Web Services and Mobile Agent Systems
Research on Reuse-Based Web Services Composition MISSING R. Yuan, L. Zunchao, and F. Boqin
Context Awareness and Content Adaptation
Performance Comparison of Distributed Architectures for Content Adaptation and Delivery of Web Resources
C. Canali, V. Cardellini, M. Colajanni, and R. Lancellotti
A User-Driven Adaptation Strategy for Mobile Video Streaming Applications
Framework and Rule-Based Language for Facilitating Context-Aware Computing Using Information Appliances
K. Nishigaki, K. Yasumoto, N. Shibata, M. Ito, and T. Higashino
The Last Hop of Global Notification Delivery to Mobile Users: Accommodating Volume Limits and Device Constraints D. Zagorodnov and D. Johansen
An Adaptive Middleware to Support Context-Aware Knowledge Sharing
Fourth International Workshop on Distributed Event-Based Systems
DEBS
Session 1: Matching and Multicasting
Analysis and Algorithms for Content-Based Event Matching

MEDYM: Match-Early and Dynamic Multicast for Content-Based Publish-Subscribe Service Networks
On Introducing Location Awareness in Publish-Subscribe Middleware
Session 2: Publish-Subscribe with State
Policy-Controlled Event Management for Distributed Intrusion Detection
Integrating Databases with Publish/Subscribe L. Vargas, J. Bacon, and K. Moody
Integrating Distributed Object Transactions with Wide-Area Content-Based Publish/Subscribe Systems
Session 3: Ad Hoc and Dynamic Topologies
CHR: A Distributed Hash Table for Wireless Ad Hoc Networks
Publish-Subscribe Tree-Maintenance over a DHT
Publisher Mobility in Distributed Publish/Subscribe Systems
Session 4: Short Papers
A Stateful and Open Publish-Subscribe Structure for Online Marketplalces
Low Latency Optimisation of Content Based Publish Subscribe for Real-Time
Mobile Gaming Applications D. McCaffery and J. Finney
A Distributed Alerting Service for Open Digital Library Software
On the Benefits of Non-canonical Filtering in Publish/Subscribe Systems
Fifth International Workshop on Smart Appliances and Wearable Computing
IWSAWC
Enabling technologies and networking
Using Fine-Grained Infrared Positioning to Support the Surface-Based Activities of Mobile Users
A. Krohn. M. Beigl. M. Hazas. and HW. Gellersen

Quantitative Evaluation of Location Systems Techniques for Short-Range
RF-Based Sensor Networks MISSING R. Padilha and U. Kubach
A Self Configurable Topology-Aware Network for Smart Materials
T. Yanagihara, H. Sakakibara, M. Ideuchi, N. Kohtake, I. Masayuki, K. Takashio, and H. Tokuda
Wearable Computers
An Information Retrieval System for Supporting Casual Conversation in Wearable
Computing Environments
N. Pham, T. Terada, M. Tsukamoto, and S. Nishio
IASO – An Activity-Based Computing Platform for Wearable Computing
Thera-Network: A Wearable Computing Network to Motivate Exercise in Patients
undergoing Physical Therapy
J. Kimel
Novel User Interface
DistScroll – A New One-Handed Interaction Device
M. Kranz, P. Holleis, and A. Schmidt
Visual Code Widgets for Marker-Based Interaction.
M. Rohs
DiamondHelp: A Collaborative Interface Framework for Networked Home Appliances
C. Rich, C. Sidner, N. Lesh, A. Garland, S. Booth, and M. Chimani
Smort Appliances in the real would
Smart Appliances in the real world
The BluePost – A Smart Car Heating System
L. Kaila, L. Lehti, T. Häkkinen, P. Myllymäki, V. Mäkinen, and J. Vanhala
Implementation and Evaluation of the Personal Wellness Coach
R. Asselin, G. Ortiz, J. Pui, A. Smailagic, and C. Kissling
Adding Context Information to Digital Photos.
P. Holleis, M. Kranz, M. Gall, and A. Schmidt
The Third International Workshop on Mobile Distributed Computing
MDC
Invited Talk
Mobility in Ad Hoc Wireless Networks: A Villain or a Friend?
Session I: Wireless and Ad Hoc Networks
Angular Routing Protocol for Mobile Ad Hoo Natworks
Angular Routing Protocol for Mobile Ad Hoc Networks

Hybrid Uplink Scheduling in an Integrated 3G/WLAN Network with Relaying
Self-Stabilizing Optimal Local Routing in Ad Hoc Networks
Session II: Mobile distributed systems
Consistency of Cooperative Caching in Mobile Peer-to-Peer Systems over MANET
A Formal Framework for Agent Itinerary Specification, Security Reasoning and Logic Analysis
Communication Partner Identification in Distributed Job Workflow Execution over the Grid
A Framework for Reconfiguring Mobile Applications
Session III: Wireless network and mobile systems
Stable, Time-Bund References in Context of Dynamically Changing Environments
A Key Establishment Protocol for Bluetooth Scatternets
A Middleware Architecture for Mobile 3D Graphics
A Fair QoS Multicast Routing Scheme for IP/DWDM Optical Internet X. Wang, C. Liu, J. Cui, M. Huang, and S. Das
Session IV: Wireless networks and mobile systems (short papers)
Wireless LAN Positioning with Mobile Devices in a Library Environment
Increasing Mobile Transaction Concurrency in Dynamically Configurable Environments A. Brayner and J. Filho
Cluster-Based Intelligent Searching in Unstructured Peer-to-Peer Networks
Anonymizing Geographic Ad Hoc Routing for Preserving Location Privacy
Context Adaptation of the Communication Stack
Available Bandwidth Detection with Improved Transport Algorithm for Heterogeneous Networks

A Path-History-Sensitive Access Control Model for Mobile Agent Environment
Secure Enhancement Scheme for Routing Protocol in Mobile Ad Hoc Networks
Seventh International Workshop on Multimedia Network Systems and Applications MNSA
MINSA
Session 1: Web and Network Applications Chair: Minoru Uehara, Toyo University, Japan
A Discrimination System for Identification of Cultivated Products by Trace Elements Analysis – Using Broccoli as an Example
N. Sato, M. Cenara, J. Tamaoka, K. Shimomura, H. Tamamoto, and K. Kamijo
An Intelligent Semantic Agent for Supervising Chat Rooms in e-Learning System
Implementation of WWW Conference System for Supporting Remote Mental Health Care Education
K. Sugita, N. Uchida, A. Miyakawa, G. De Marco, and L. Barolli
Measurement-Based Peer-to-Peer Grouping for Networked Virtual Environment
A Hybrid Scheduling Algorithm with Low Complexity: Jumping Virtual Clock Round Robin
Session 2: Multimedia Applications and Systems Chair: Akio Koyama, Yamagata University, Japan
Cross-Media Translation between Human Motions and Texts Based on Mental Image Directed Semantic Theory
M. Amano, D. Hironaka, S. Oda, V. Barolli, G. Capi, and M. Yokota
Parallel Bindings in Distributed Multimedia Systems
M. Repplinger, F. Winter, M. Lohse, and P. Slusallek
High Immersive System Aiming for Collaboration Working over the Japan Gigabit Network II (JGNII)
T. Ishida, A. Miyakawa, and Y. Shibata
A Novel Cache Scheme for Cluster-Based Streaming Proxy Server
Striping Communication Protocol for Reliable Multimedia Communication in a Hierarchical Group
Y. Nishimura, T. Enokido, and M. Takizawa
Session 3: Network Protocols Chair: Arjan Durresi, Lousiana State University, USA
A New MAC Protocol for Robot Communication and Its Performance Evaluation

Optimized Geographical Routing Protocol for Inter-vehicle Communications. M. Durresi, A. Durresi, and L. Barolli
Concurrency Control Using Role Ordering (RO) Scheduler for Distributed Objects
A Two-Level ECN Marking for Fair Bandwidth Allocation between HSTCP and TCP Reno
Control Theory Optimization of MECN in Satellite Networks
First International Workshop on Mobility in Peer-to-Peer Systems
MPPS
Session 1: Keynote Address Xiaodong Zhang, Lettie Pate Evans Professor of Computer Science, College of William and Mary, USA
Session 2: Mobility and Infrastructure
JMobiPeer: A Middleware for Mobile Peer-to-Peer Computing in MANETs
Supporting Mobile Clients in Publish/Subscribe Systems J. Wang, J. Cao, and J. Li
Mobility Churn in DHTs
PChord: Improvement on Chord to Achieve Better Routing Efficiency by Exploiting Proximity
Session 3: Security and Reliability
TruGrid: A Self-Sustaining Trustworthy Grid
QoS Oriented Dynamic Replica Cost Model for P2P Computing
Provide Privacy for Mobile P2P Systems
Access Control in Peer-to-Peer Collaborative Systems
Session 4: Services
NaproxI: A Hash Based Collaborative Proxy System for Content Adaptation
Performance Issues of P2P File Sharing over Asymmetric and Wireless Networks

Second International Workshop on Wireless Ad Hoc Networking

WWAN
WWAN
Session I: Scheduling and MAC Layer Chair: S. Tixeuil
On the Performance of Bluetooth Scatternets with Finite Buffers
Directional NAV Indicators and Orthogonal Routing for Smart Antenna Based Ad Hoc Networks
A Practical Adaptive Packet Scheduling Algorithm with Single User Fairness Guarantee over the Forward Link of 3G Cellular Data Services
Session II: Positioning and Position-Aware Protocols Chair: J. Misic
Geographical Cluster Based Routing in Sensing-Covered Networks
SHARP: A New Approach to Relative Localization in Wireless Sensor Networks
An Extended Directional MAC for Location Information Staleness in Ad Hoc Networks
Session III: Self-Organization and Route Discovery Chair: ZP. Jiang
Self-Stabilization in Self-Organized Multihop Wireless Networks
The Wandering Nodes: Key Management for Low-Power Mobile Ad Hoc Networks
On optimal TTL Sequence-Based Route Discovery in MANETs
Session IV: Energy Optimized Protocols Chair: YK. Kwok
Recognition in a Low-Power Environment
iMobif: an Informed Mobility Framework for Energy Optimization in Wireless Ad Hoc Networks
On Reducing Broadcast Expenses in Ad Hoc Route Discovery
Author Index

Message from the Workshops Chair

Welcome to the ICDCS 2005 Workshops! In recent years the ICDCS workshops have become an integral part of the conference, providing an opportunity for researchers to present results and participate in focused discussion of timely topics related to distributed computing systems. This year, ICDCS will host nine workshops:

Fourth International Workshop on Assurance in Distributed Systems and Networks (ADSN 2005), chaired by Prof. Kinji Mori, Prof. Yoshiaki Kakuda and Prof. Sandeep Kulkarni.

Fourth International Workshop on Distributed Event-Based Systems (DEBS 2005), chaired by Prof. Juergen Dingel and Dr. Rob Strom.

Fifth International Workshop on Smart Appliances and Wearable Computing (IWSAWC 2005), chaired by Prof. Christian Decker and Prof. Tsutomu Terada.

Third International Workshop on Mobile Distributed Computing (MDC 2005), chaired by Prof. Sajal K. Das, Prof. Jiannong Cao and Prof. Cheng-Zhong Xu.

Seventh International Workshop on Multimedia Network Systems and Applications (MNSA 2005), chaired by Prof. Timothy K. Shih, Prof. Akio Koyama, Prof. Chih-Yung Chang and Prof. Leonard Barolli.

First International Workshop on Mobility in Peer-to-peer Systems (MPPS 2005), chaired by Prof. Lionel M. Ni, Prof. Chung-Ta King and Prof. Jie Wu.

Second International Workshop on Security in Distributed Computing Systems (SDCS 2005), chaired by Dr. Wei Zhao and Prof. Yong Guan.

First International Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet (SIUMI 2005), chaired by Prof. Antonio Corradi and Dr. Philip S. Yu.

Second International Workshop on Wireless Ad Hoc Networking (WWAN 2005), chaired by Prof. David Simplot-Ryl and Prof. Ivan Stojmenovic.

I would like to thank all the workshop chairs and other organizers for their dedication and hard work in putting together these excellent workshops. Organizing a workshop is no small feat and is a tremendous contribution to the research community. I would also like to thank the members of the individual workshop program committees and other reviewers for the many hours they dedicated to reviewing submitted papers and selecting those top papers for inclusion in the respective programs. Many thanks are due as well to the Conference General Chair, Prof. Ten H. (Steve) Lai and the Conference Program Chair, Prof. Anish Arora, for their extensive help on numerous aspects of this year's ICDCS workshops. Finally, and most importantly, I would like to thank the Steering Committee Chair, Prof. Ming T. (Mike) Liu, not only for his continued advice and guidance on the ICDCS workshops, but for his selfless dedication to maintaining ICDCS as a premiere IEEE conference for 25 years!

ICDCS 2005 Workshops Chair Prof. Philip McKinley Michigan State University

Message from the ADSN Chairs

It is my great pleasure to welcome you to the Fourth International Workshop on Assurance in Distributed Systems and Networks. The workshop was initiated in Vienna in 2002, and continued in Providence in 2003 and in Tokyo in 2004. After great success of three continent events, we have moved to Columbus in June, 2005.

Along with recent rapid growth of the Internet and ubiquitous networks, autonomous decentralized systems are connected with each other. In these distributed systems and networks, heterogeneous requirements are independently generated and the requirements themselves are frequently changing. Assurance in these distributed systems and networks is defined as capability of adaptability to heterogeneous and changing requirements. The workshop theme is important because requirements for assurance systems and networks are increasing in the future Internet and ubiquitous networks. Technologies supporting assurance including integration of various technologies such as real time, fault tolerance, autonomy, mobility and intelligence will have to be incorporated in complex distributed systems and networks.

In response to the Call for Papers, sixteen papers have been submitted to the workshop. As a result of comprehensive reviews by the Program Committee, we have selected twelve high quality technical papers.

It is our hope that the workshop will stimulate fruitful discussions and generate numerous ideas and that all participants will attain an aura of excitement and accomplishment from the process of paving the way for the foundations to the design of assurance systems and networks.

We would like to take this opportunity to express our deep thanks to the members of the Program Committee for their hard work, especially Program Chair Sandeep Kulkarni, Vice Program Chairs Yinong Chen, Miroslaw Malek, Hidenori Nakazato, who completed rigorous selection of the technical papers. We are also grateful to the ICDCS2005 organizers, especially Steering Committee Chair Ming T. (Mike) Liu and Workshops Chair Philip McKinley for their constant advice and support. We would also like to acknowledge the support of several organizations including the IEEE Computer Society Technical Committee on Distributed Processing, the IEICE Technical Committee on Dependable Computing.

General Chair Kinji Mori, Tokyo Institute of Technology

Vice Chair Yoshiaki Kakuda, Hiroshima City University

Message from the SDCS Chairs

Welcome to SDCS 2005, the 2nd International Workshop on Security in Distributed Computing Systems. Cyber security is a research area of both theoretical and practical significance. In recent years, securing a large-scale networked system has become a great challenge. Interest has increased in the field of security of parallel and distributed systems, which include specification, analysis, and design of protocols, access control mechanisms, denial-of-service attacks, digital forensics, wireless and sensor network security, mobile code security, trust management, digital rights management, privacy and anonymity, modeling of information flow and its application to confidentiality policies, system composition, and covert channel analysis. The aim of this workshop is to provide a forum for continued activity in this area, to allow interaction of security researchers and developers with the Distribute Systems communities, and to give attendees of ICDCS 2005 an opportunity to network with experts in cyber security.

In response to the Call for papers of this workshop, 42 papers from 11 different countries were submitted. Each paper was reviewed by at least three reviewers including the Program Committee members and many external experts. The program committee made selection based on review reports and space and time limitation. As a result, 12 regular papers and 5 WIP papers will be presented at SDCS 2005.

The technical program for SDCS 2005 is the result of the hard work of many authors, reviewers, Program Committee members. We are grateful to them for their help and investing time and energy in the development of the very high quality technical program. We must acknowledge the ICDCS 2005 Workshops Chair, Professor Philip McKinley of the Michigan State University, ICDCS General and Program Chairs, Professors Ten H. Lai and Anish Arora of the Ohio State University, ICDCS Steering Committee Chair, Professor Ming T. (Mike) Liu of the Ohio State University, and IEEE TCDP Chair, Professor Chita Das of the Penn State University, for their guidance, advices, and supports to the SDCS 2005 Workshop. We would like to thank Professor Dong Xuan of the Ohio State University and Ms. Larisa Otto of Texas A&M University for their help. We also wish to acknowledge Danielle Martin, IEEE Computer Society Press, for her outstanding job in the management and production of the SDCS 2005 proceedings.

We hope you will enjoy and benefit from the presentations and discussions of SDCS 2005!

General Chair Wei Zhao

Program Chair Yong Guan

Message from the SIUMI Chairs

We would like to welcome you all to SIUMI 2005, the Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet, held in conjunction with the 25th International Conference on Distributed Computing Systems. Advances in mobile and wireless communication are enlarging and enhancing the services provided by the Internet infrastructure towards any time, any place and any device features. Ubiquitous services impose new requirements to the entire infrastructure, from the system to the middleware and the applications that should be able to adapt traditional services to different mobile user terminals and profiles, and embed new functions and tools to support the new services and new requirements of the future scenario. The main motivation behind the establishing of the workshop is the idea that the new Internet service infrastructure can only succeed on the basis of a strict synergism between the heterogeneous variety of mobile wireless devices and the fixed network organization that should suite and follow the requirements and constraints imposed by the wireless and mobile counterpart. The specific limitations of mobile wireless devices, such as connectivity discontinuity and energy/resource shortages, connected with the new location- and context-sensitivity properties, are challenging issues that call for a reexamination on the design of the middleware of both the fixed and the mobile counterpart.

In response to the Call for Papers, 30 papers from 11 different countries had been submitted. Based on three review reports per paper, they were classified as accepted, rejected, or discussed. For the last category papers, the final decision has been reached by considering additional reviews. As a result, a total of 18 papers were selected for presentation at SIUMI 2005. Accepted papers reflect the interest in the vision of a mobile and ubiquitous Internet and most of the different active directions of investigation in that area that is rapidly enhancing its focuses, growing with new solutions, and acquiring a significant maturity. The main interests emerged are currently directed to identification and location management, context awareness and content adaptation, middleware supports, and service composition.

The workshop could not be successful without the help of many organizations and individuals. First, we would like to thank the ICDCS Workshops Chair Philip McKinley, Michigan State University, for his support, advice, and organizational suggestions. Next, we wish to thank all the Program Committee members and the external reviewers for evaluating the submitted papers in a timely and professional manner. Last, but not least, we thank all the authors for their submissions. Finally, we would also like to thank the MIUR FIRB WEB-MINDS Project "Wide-scale Broad-band Middleware for Network Distributed Services" that supported the fruitful discussions and interactions that inspired the idea of organizing the SIUMI Workshop.

We are really convinced that you will enjoy and benefit from the presentations and discussions of SIUMI 2005!

SIUMI 2005 Program Co-Chairs

Antonio Corradi, University of Bologna, Italy
Philip S. Yu, IBM T.J. Watson Research Center, USA

Message from the DEBS Chairs

This volume contains research papers and position papers presented at the 4th International Workshop on Distributed Event-Based Systems, on June 10, 2005, in Columbus Ohio, as part of the 25th International Conference on Distributed Systems.

Event-based systems are receiving increased interest both in the academic and the commercial communities, as a paradigm for timely dissemination of information between loosely coupled producers and consumers.

The Workshop on Distributed Event-Based Systems began in 2002. Because of its inter-disciplinary nature, it has been hosted in diverse conferences, including ICDCS, SIGMOD/PODS, and ICSE.

The workshop encourages submissions covering a broad range of issues, ranging from service specifications, to algorithms for implementing these services efficiently, reliably, and scalably, to applications of event-based systems to real-world problems. There is overlap between research in distributed event-based systems and other disciplines, such as mobile computing, networking, autonomic computing, and continuous queries over data streams. It is our goal to bring people together from many of these disciplines and to combine the perspectives of theoreticians and practitioners, system developers and system users.

As a workshop, we welcome submissions of work in progress and position papers, as well as new research papers. This year, we received 26 submissions. Each paper was reviewed by at least three program committee members, and many by four. Despite the high quality of the submissions, for which we thank our authors, due to the constraints of a one-day workshop, we were only able to accept 9 full papers and 4 short papers. We wish to thank our program committee and outside reviewers for their thorough and insightful reviews and feedback, which contributed to a high quality workshop.

We further acknowledge the help of Philip McKinley, workshop coordinator for ICDCS, for making it possible for DEBS 2005 to be hosted in Columbus.

Sincerely,

Juergen Dingel, Queens University, Canada Rob Strom, IBM TJ Watson Research, USA Co-Chairs

Message from the IWSAWC Chairs

Through the latest technological developments, researchers have the possibility to deploy applications on a larger scale beyond scenarios within the lab environment. For the exploration of such scenarios, enabling hardware and software technologies are required, including new kinds of embedded and smart devices, personal and wearable computers, infrastructure components, software architectures and collaboration models. The International Workshop on Smart Appliances and Wearable Computing (IWSAWC) has now been held for the 5th time in conjunction with the ICDCS. It provides a forum for researchers from academia and industry to exchange new findings in collaborative technologies and smart appliances deployed in real world environments. This year, 12 high-quality peer-reviewed papers, out of 29 submissions, have been selected for presentation.

Wearable computing is one of the main topics in the selected papers, representing that it provides a base technology for research into real world smart appliances. In addition, wearable computing may be further enhanced by collecting inputs from sensors, enabling the retrieval and usage of contextual information. In this domain communication networks, software architectures and appliances incorporate this information to foster their functionality and broaden the appliance design option. Other focal points of this year's workshop are enabling technologies, such as location systems, visual identification technologies and self-organizing networks. These approaches present the closest interfaces to the real world and empower appliances to work collaboratively. In such environments full of computer functionality, appropriate abstractions for the user's interaction with the system are required. As a consequence, user interfaces for controlling complex home networks or other possibilities, utilizing handheld or mobile phone devices, take on an important role in the workshop.

The workshop provides a poster and demonstration session, as an occasion for researchers, both academic and industrial, to immediately coalesce and discuss their work with other workshop participants. This is an excellent opportunity to demonstrate latest results and get involved in highly active discussion in this rapidly evolving research field.

The quality of the workshop would not have been possible without the commitment, help and expertise of the members of the program committee. We would like to express our thanks to the members of the program and organizing committee for the time and effort spent in reviewing and discussing the papers, and in the overall organization of this workshop. We would also like to thank all authors for their submissions.

IWSAWC 2005 Program Chairs
Christian Decker, TecO, University of Karlsruhe
Tsutomu Terada, Cybermedia Center, Osaka University

Message from the MDC Chairs

Welcome to MDC'05! Following the success of the first two workshops MDC'03, held in conjunction with ICDCS'03 in Providence, Rhode Island USA and MDC'04 with ICDCS'04 in Tokyo, Japan, MDC'05 provides a forum for scientists and engineers in academia and industry to exchange and discuss their experiences, new ideas, research results, and products about all aspects of mobile distributed computing. The mobility of users together with their personal/wearable computing devices and the special characteristics of mobile environments, such as highly variable connectivity, disconnection, location-dependency, and energy and resource sensitivity, and the diversity and flexibility introduced by mobile systems bring new challenges for research in distributed computing. Mobile distributed computing has emerged as a discipline of distributed systems research and practice toward support for mobility.

It is concerned with creating solutions using mobile communication networks and mobile computing devices to enable the sharing of distributed resources/services and to facilitate remote collaborations while people work away from the fixed, wired facilities. The principal theme of this workshop is the development of distributed algorithms, system level mechanisms, and applications for mobile computing environments. It also covers the underlying network environments and databases support.

This year, MDC'05 received 41 papers. Each paper was reviewed by two to three members of the Program Committee or external reviewers. The final program includes 11 regular papers and 8 short papers, which cover a range of different topics related to mobile distributed computing, including mobile data management, wireless and sensor networks, resource sharing and cooperation, mobile agents, mobile peer-to-peer computing, and security. In addition, one invited contribution in ad hoc wireless networks further enriches the content of this high quality program. We congratulate the authors of accepted papers, and regret many quality submissions could not be included, due to the space limit of this program.

The organizing committee wants to thank all the submission authors for their contributions to the program. We are grateful that Professor Jie Wu accepted our invitation for the keynote presentation. We would also like to thank the PC members and external reviewers for their in-depth and timely reviews of the papers. Without their help and advice this program would not be possible. Thanks to Mr. Hui Chen for his excellent job as a Web master and for coordinating the review process. We also want to thank Prof. Philip Mckinley, ICDCS'05 Workshop Chair, for his help and guidance in the organization of this workshop.

Hope you all enjoy the workshop.

Program Committee Chairs
Cheng-Zhong Xu, Guohong Cao, and Weijia Jia

General Chairs

Jiannong Cao and Sajal Das

Message from the MNSA Chairs

The 7th International Workshop on Multimedia Network Systems and Applications (MNSA 2005) will be held in Conjunction with the 25-th International Conference on Distributed Computing Systems (ICDCS 2005) in Columbus, Ohio, USA on June 6-10, 2005. MNSA started in 1999 and the workshop has been held in USA, Germany, Austria and Japan.

This international workshop is a forum for sharing ideas and research work in the emerging areas of multimedia networking and their applications. Networks of today are going through a rapid evolution. With growing popularity of wired and wireless networks, multimedia network systems and applications are changing our daily life.

In the last few years, we have observed an explosive growth of multimedia computing, communication and applications. This revolution is transforming the way people live, work, and interact with each other, and is impacting the way businesses, education, entertainment, and health care are operating. Presently, a lot of research on high-speed networks and multimedia communication is going on. The papers included in this workshop cover aspects of multimedia systems and applications, distributed computing systems, P2P systems, Web applications, collaborative systems, network applications and protocols.

For the MNSA 2005, we received 46 submissions. Each of them was reviewed by three PC members. The PC selected 15 papers to be presented in this workshop. We have three sessions: Web and Network Applications, Multimedia Applications and Systems, and Network Protocols.

Many people contributed to the success of MNSA 2005. We would like to express our appreciation to Dr. Tomoya Enokido and Mr. Satoshi Itaya for their great efforts and efficient work to handle the CFP, online paper submission, and paper review process.

MNSA Steering Committee Co-Chairs

Yoshitaka Shibata, Iwate Prefectural University, Japan

Makoto Takizawa, Tokyo Denki University, Japan

Workshop General Co-Chairs

Timothy K. Shih, Tamkang University, Taiwan

Akio Koyama, Yamagata University, Japan

MNSA 2005 Program Committee Co-Chairs
Chih-Yung Chang, Tamkang University, Taiwan
Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan

Message from the MPPS Chairs

Welcome to MPPS 2005, the First International Workshop on Mobility in Peer-to-peer Systems, held in conjunction with the 25th International Conference on Distributed Computing Systems. Peer-to-peer (P2P) has emerged as a promising paradigm for developing large-scale distributed systems. P2P systems are characterized as being fully decentralized, self-organizing, and self-repairing. Early P2P systems were designed with an Internet-like network infrastructure in mind. As the emergence and prevalence of new wireless networking techniques, such as wireless mesh networks, wireless LANs, and 3G cellular networks, the need to move P2P paradigm into wireless networking and to support mobile computing is increasing. How does a P2P system exploit and aggregate the resources in such an environment? How should a P2P system manage node mobility? How should a mobile P2P system ensure security and privacy? These issues become very challenging. The goal of the workshop is to examine the mobility issues in P2P systems over heterogeneous wired/wireless networks.

Research on mobility in peer-to-peer systems is still in its infancy, but there is growing interest in the field. This year's workshop features one keynote speech and eleven papers, covering a broad range of interesting issues from architecture to applications. We hope that this workshop will foster increasing collaboration between researchers and stimulate further research.

We would like to thank the workshop chair, Philip McKinley of Michigan State University, for the opportunity to organize this workshop. Next, we wish to thank Prof. Xiaodong Zhang of College of William and Mary for delivering the keynote speech. We are especially indebt to the program committee members for refereing the papers and helping us organize the program. Finally, we would like to express our gratitude to all the authors and contributors, who, through their contribution, demonstrated an interest in this burgeoning field.

MPPS 2005 General Chair
Lionel M. Ni, Hong Kong University of Science and Technology, Hong Kong

MPPS 2005 Program Co-Chairs
Chung-Ta King, National Tsing Hua University, Taiwan
Jie Wu, Florida Atlantic University, USA

Message from the WWAN Chairs

Welcome to WWAN 2005, the 2nd International Workshop on Wireless Ad hoc Networking to be held in conjunction with the 24th International Conference on Distributed Computing Systems. This year, in response to the Call for Papers, thirty papers from twelve different countries had been submitted. From this submitted papers, twelve papers has been selected for inclusion in the workshop. Although that the acceptance rate is lower than in 2004 (31% compared to 50%), we would like to notice that the quality and focus of submissions are both increasing. This fact proves the appropriateness of the workshop scope to the researcher preoccupations.

The workshop could not be successful without the help of many organizations and individuals. First, we would like to thank the workshop general chair, Philip K. McKinley of Michigan State University (USA) for his support and guidance. Next, we wish to thanks the program committee (PC) members, and the PC members and external reviewers for evaluating the assigned papers in a timely and professional manner. Last, but not the least, we thank all the authors for their submissions.

Papers that have been submitted and accepted to WWAN 2005 show the interest of the community for accurate and relevant problems like packet scheduling, advanced MAC layer protocols, positioning, self-organization and energy efficient protocols.

We hope you will enjoy and take benefits of presentations and discussions along WWAN 2005 in Columbus!

On behalf of program committee,

David SIMPLOT-RYL, Université de Lille, INRIA Futurs, France Ivan STOJMENOVIC, University of Ottawa, Canada WWAN 2005 Program Co-Chairs

Workshop Committee Members

Fourth International Workshop on Assurance in Distributed Systems and Networks

ADSN

ADSN Organizing Committee

General Chair

Kinji Mori, Tokyo Institute of Technology, Japan

Vice Chair

Yoshiaki Kakuda, Hiroshima City University, Japan

Program Chair

Sandeep Kulkarni, Michigan State University, USA

Vice Program Chairs

Yinong Chen, Arizona State University, USA Miroslaw Malek, Humboldt-Universitat zu Berlin, Germany Hidenori Nakazato, Waseda University, Japan

Program Committee

Masaki Aida, NTT, Japan Roberto Baldoni, Univ di Roma, Italy

Bharat Bhargava, Purdue University

Murat Demirbas, MIT, USA

Ahmed Farooq, COMTEC, Japan

Junichi Funasaka, Hiroshima City University, Japan

Chin-Tser Huang, University of South Carolina, USA

Kenji Ishida, Hiroshima City University, Japan

Joerg Kaiser, Univ. Ulm, Germany

Isao Kaji, Univ. of Miyagi, Japan

Helen Karatza, Aristotle University of Thessaloniki, Greece

Gerard Le Lann, INRIA, France

Philip Machanick, University of Queensland Brisbane, Australia

Yukikazu Nakamoto, University of Hyogo, Japan

Mikhail Nesterenko, Kent State University, USA

Nagao Ogino, KDDI R&D Labs, Japan

Marta Patino, Tech. Univ. Madrid, Spain

Alexander Romanovsky, Univ. Newcastle Upon Tyne, UK

Dimitrios Serpanos, University of Patras, Greece

Neeraj Suri, Darmstadt Univ., Germany

Wei-Tek Tsai, Arizona State University, USA

Yasushi Wakahara, University of Tokyo, Japan

Bill Yurcik, University of Illinois at Urbana-Champaign, USA

Second International Workshop on Security in Distributed Computing Systems

SDCS

SDCS 2005 Workshop Organizers

General Chair: Wei Zhao, Texas A&M University Program Chair: Yong Guan, Iowa State University

SDCS 2005 Program Committee

Terry Benzel, University of South California

Roy Campbell, University of Illinois at Urbana-Champaign

Chita Das, Penn State University

Kai Hwang, University of South California

Yong Guan, Iowa State University

Douglas Jacobson, Iowa State University

Carl Landwehr, NSF

Wenke Lee, Georgia Institute of Technology

Brian Levine, University of Massachusetts at Amherst

Ninghui Li, Purdue University

Peng Liu, Penn State University

Daniel Massey, Colorado State University

Clifford Neuman, University of South California

Peng Ning, North Carolina State University

Cristina Nita-Rotaru, Purdue University

Michael Oehler, DoD

Daniel Ragsdale, United States Military Academy

Douglas Reeves, North Carolina State University

Pierangela Samarati, Universita' di Milano, Italy

Haining Wang, College of William and Mary

Jie Wu, Florida Atlantic University

Lixia Zhang, University of California at Los Angeles

Xiaodong Zhang, College of William and Mary

Wei Zhao, Texas A&M University

First International Workshop on Services and Infrastructures for the Ubiquitous and Mobile Internet

SIUMI

SIUMI Organizing Committee

Technical Co-Chairs

Antonio Corradi, University of Bologna, Italy Philip S. Yu, IBM T.J. Watson Research Center, New York, USA

Steering Committee

Michele Colajanni, University of Modena and Reggio Emilia, Italy Giulio Iannello, University of Rome "Campus Bio-Medico", Italy Rittwik Jana, AT&T Labs Research, NJ, USA Michael Smirnov, Fraunhofer Focus, Germany

Technical Program Committee

Cosimo Anglano, University of Piemonte Orientale, Italy Albert Banchs, Universidad de Madrid Carlos III, Spain Paolo Bellavista, University of Bologna, Italy Claudio Bettini, University of Milano, Italy

Valeria Cardellini, University of Roma Tor Vergata, Italy

Giovanni Chiola, University of Genova, Italy

Domenico Cotroneo, University of Napoli Federico II, Italy

Grzegorz Czajkowski, Sun Microsystems Laboratories, CA, USA

Giuliano Di Vitantonio, HP Labs, Palo Alto, USA

Chris Gill, Washington University of St. Louis, USA

Theo Kanter, Ericsson Radio Systems AB, Sweden

Thomas Magedanz, FOKUS Fraunhofer, Germany

Cecilia Mascolo, UCL, London, UK

Rebecca Montanari, University of Bologna, Italy

Simon Pietro Romano, University of Napoli Federico II, Italy

Vittorio Scarano, University of Salerno, Italy

Douglas C. Schmidt, Vanderbilt University, USA

Niranjan Suri, IHMC, FL, USA

Nalini Venkatasubramanian, University of California, Irvine, CA, USA

Kun-lung Wu, IBM Research, USA

Franco Zambonelli, University of Modena e Reggio Emilia, Italy

Fourth International Workshop on Distributed Event-Based Systems

DEBS

DEBS Organizing Committee

Workshop Co-Chairs

Juergen Dingel, Queen's University, Canada Rob Strom, IBM T. J. Watson Research Center, USA

Additional Workshop Organizers

Antonio Carzaniga, University of Colorado, USA Ludger Fiege, Darmstadt University of Technology, Germany Pascal Fenkam, Technical University of Vienna, Austria

Program Committee

Jean Bacon, Cambridge University, UK

Jonathan Bosloy, Solace Systems, Canada

Antonio Carzaniga, University of Lugano, Switzerland and University of

Colorado, USA

Ugur Cetintemel, Brown University, USA

Gianpaolo Cugola, Politecnico di Milano, Italy

Pascal Fenkam, Vienna University of Technology, Austria

Ludger Fiege, Darmstadt University of Technology, Germany

Harald Gall, University of Zurich, Switzerland

Rachid Guerraoui, EPFL, Switzerland

Annika Hinze, University of Waikato, New Zealand

Paola Inverardi, University of L'Aquila, Italy

Hans-Arno Jacobsen, University of Toronto, Canada

Mehdi Jazayeri, Vienna University of Technology, Austria

Jean-Phillipe Martin-Flatin, University of Quebec in Montreal, Canada

Gero Muehl, Berlin University of Technology, Germany

Peter Pietzuch, Harvard University, USA

Robby, Kansas State University, USA

Joe Sventek, University of Glasgow, Scotland

Peter Triantafillou, University of Patras, Greece

Robert van Renesse, Cornell University, USA

Fifth International Workshop on Smart Appliances and Wearable Computing

IWSAWC

IWSAWC Organizing Committee

Program Chairs

Christian Decker, TecO, University of Karlsruhe, Germany Tsutomu Terada, Osaka University, Japan

Organizing Committee

Jalal Al-Muhtadi, University of Illinois at Urbana-Champaign, USA Albert Krohn, University of Karlsruhe, Germany Kazunori Takashio, Keio University, Japan Khai N. Truong, Georgia Institute of Technology, USA

Program Committee

Jalal Al-Muhtadi, University of Illinois at Urbana-Champaign, USA Michael Beigl, University of Karlsruhe, Germany Wei Hong, Intel Research Berkeley, USA Yasuyuki Kono, Nara Institute of Science and Technology (NAIST), Japan Albert Krohn, University of Karlsruhe, Germany Uwe Kubach, Campus Engineering Center SAP AG Karlsruhe, Germany Kristof Van Laerhoven, Lancaster University, UK Albrecht Schmidt, University of Munich, Germany Bernt Schiele, University of Darmstadt, Germany Kazunori Takashio, Keio University, Japan Tsutomu Terada, Osaka University, Japan Yoshito Tobe, Tokyo Denki University, Japan Hideyuki Tokuda, Keio University, Japan Khai N. Truong, Georgia Institute of Technology, USA Simon Tsang, Telcordia Technologies, USA Lars Wolf, University of Braunschweig, Germany

The Third International Workshop on Mobile Distributed Computing

MDC

MDC Organizing Committee

General Co-chairs

Sajal K. Das, University of Texas at Arlington, USA Jiannong Cao, Hong Kong Polytechnic University

Program Chair

Cheng-Zhong Xu, Wayne State University, USA

Program Vice Chairs

Guohong Cao, The Pennsylvania State University, USA Weijia Jia, City University of Hong Kong

Program Committee

Arup Acharya, IBM TJ Watson Research, USA Giuseppe Anastasi, Univ. of Pisa, Italy Dipanjan Chakraborty, IBM India Research, India

Keith Chan, Hong Kong Polytechnic Univ., HK Marco Conti, Council for National Research, Italy Kent Fuchs, Cornell Univ., USA Sandeep Gupta, Arizona State Univ., USA Mohan Kumar, Univ. of Texas at Arlington, USA Francis Lau, Univ. of Hong Kong, HK Jie Li, Univ. of Tskuba, Japan Jian Lu, Nanjing Univ., China Koji Nakano, Hiroshima Univ., Japan Yi Pan, George State Univ., USA Filip Perich, Cougaar Software, Inc., USA Gian Pietro Picco, Politecnico di Milano, Italy Sumit Roy, HP Labs, USA Loren Schwiebert, Wayne State Univ., USA Mukesh Singhal, Univ. of Kentucky, USA Bala Srinivasan, Monash Univ., Australia Xian-He Sun, Illinois Institute of Technology, USA Anand Tripathi, Univ. of Minnesota, USA Xingwei Wang, Northeastern Univ., China Jie Wu, Florida Atlantic Univ., USA Bin Xiao, Hong Kong Polytechnic Univ., HK Yang Xiao, Univ. of Memphis, USA Jian-liang Xu, Hong Kong Baptist Univ., HK Jingyuan Zhang, Univ. of Alabama, USA Wei Zhao, Texas A&M Univ., USA Wanlei Zhou, Deakin Univ., Australia

Xiaobo Zhou, U. of Colorado at Colorado Springs, USA

Seventh International Workshop on Multimedia Network Systems and Applications

MNSA

MNSA Organizing Committee

Workshop Co-Chairs

Timothy K. Shih, Tamkang University, Taiwan Akio Koyama, Yamagata University, Japan

Program Co-Chairs

Chih-Yung Chang, Tamkang University, Taiwan Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan

Program Committee

Rachid Anane, University of Coventry, UK
Bernady Apduhan, Kyushu Sangyo University, Japan
Chin-Chen Chang, National Chung-Cheng University, Taiwan
Verma Brijesh, Griffith University, Australia
Kuo-Ming Chao, University of Coventry, UK
Zied Choukair, ENST Bretagne, France
Shu-Ching Chen, Florida International University, USA
Zixue Cheng, University of Aizu, Japan
Arjan Durresi, Louisiana State University, USA
Tomoya Enokido, Tokyo Denki University, Japan
Kentaro Go, Yamanashi University, Japan
Nathan Griffiths, University of Warwick, UK
Khairuddin b. Hashim, Tun Abdul Razak University, Malaysia

Aiguo He, University of Aizu, Japan

Hui-huang Hsu, Tamkang University, Taiwan

Runhe Huang, Hosei University, Japan

Jason C. Hung, Kung Wu Institute of Technology, Taiwan

Qun Jin, Waseda University, Japan

Pedro Isaias, Portuguese Open University, Portugal

Wonjun Lee, Korea University, Korea

Jiandong Li, Xidian University, China

Qing Li, City University of Hong Kong, Hong Kong

Jianhua Ma, Hosei University, Japan

Joseph Ng, Hong Kong Baptist University, Hong Kong

Jeong-Hyun Park, ETRI, Korea

Zhiyong Peng, Wuhan University, China

Nicoletta Sala, University of Italian Switzerland, Switzerland

Kaoru Sugita, Fukuoka Institute of Technology, Japan

Minoru Uehara, Toyo University, Japan

Jari Veijalainen, University of Jyvaskyla, Finland

Ying-Hong Wang, Tamkang University, Taiwan

Laurence Tianruo Yang, St. Francis Xavier University, Canada

Masao Yokota, Fukuoka Institute of Technology, Japan

Muhammad Younas, University of Coventry, UK

MNSA Steering Committee Co-Chairs

Yoshitaka Shibata, Iwate Prefectural University, Japan Makoto Takizawa, Tokyo Denki University, Japan

First International Workshop on Mobility in Peer-to-Peer Systems

MPPS

MPPS Organizing Committee

Workshop Chair

Lionel M. Ni, Hong Kong University of Science and Technology, Hong Kong

Program Chairs

Chung-Ta King, National Tsing Hua University, Taiwan Jie Wu. Florida Atlantic University, USA

Program Committee

James Aspnes, Yale University, USA

Jiannong Cao, Hong Kong Polytechnic University, Hong Kong

Bernady O. Apduhan, Kyushu Sangyo University, Japan

Dan Grigoras, University College Cork, Ireland

Hung-Chang Hsiao, National Tsing Hua University, Taiwan

Charlie Hu, Purdue University, USA

Yiming Hu, University of Cincinnati, USA

Jehn-Ruey Jiang, National Central University, Taiwan

Fabian Kuhn, ETH, Zurich

Xiaoming Li, Peking University

Yunhao Liu, Hong Kong University of Science and Technology, Hong Kong

Chunqiang Tang, IBM Watson Research Center, USA

Li Xiao, Michigan State University, USA

Aaron Zollinger, ETH, Zurich

Second International Workshop on Wireless Ad Hoc Networking

WWAN

WWAN Organizing Committee

Program Co-Chairs

David Simplot-Ryl, INRIA Futurs, France Ivan Stojmenovic, University of Ottawa, Canada

Program Committee

Michel Barbeau, Carleton University, Ottawa, Canada Stefano Basagni, Northeastern University, Boston, USA

Ana Cavalli, INT Evry, France

Marco Conti, IIT Institute, Pisa, Italy

Serge Fdida, University of Paris, France

Laura Marie Feeney, SICS, Kista, Sweden

Afonso Ferreira, CNRS, France & COST Office, Brussels, Belgium

Eric Fleury, CITI Lyon, France

Matthias Frank, University of Bonn, Germany

Jennifer Hou, University of Illinois, USA

Keqin Li, State University of New York, USA

Xiang-Yang Li, Illinois Institute of Technology, USA

Soung-Chang Liew, The Chinese University of Hong Kong, Hong Kong

Stéphane Maag, INT Evry, France

Jelena Misic, University of Manitoba, Winnipeg, Canada

Ingrid Moerman, University of Gent, Belgium

Farid Naït-Abdesselam, University of Lille, France

Amiya Nayak, SITE, University of Ottawa, Canada

Stephan Olariu, Old Dominion University, Norfolk, USA

Symeon Papavassiliou, University Heights, Newark, USA

Pedro Ruiz, University of Murcia, Spain

Loren Schwiebert, Wayne State University, USA

Krishna Sivalingam, University of Maryland Baltimore County, USA

Ketil Stølen, SINTEF and University of Oslo, Norway

Takashi Watanabe, Shizuoka University, Japan

Frederic Weis, University of Rennes, France

Jie Wu, Florida Atlantic University, USA

Reviewers

Fourth International Workshop on Assurance in Distributed Systems and Networks

ADSN

Umamaheswaran Arumugam Borzoo Bonakdarpour Jerimy Brockway Bezawada Bruhadeshwar

Second International Workshop on Security in Distributed Computing Systems

SDCS

Jalal Almutadh Lunguan Li Sabrina De Capitani di Kun Bai Ninghui Li Vimercati Terry Benzel Sunho Lim Hai Wang Ji-Won Byun Peng Liu Haining Wang Min Cai Zhibin Mai Qihua Wang Roy Campbell Daniel Massey Yawen Wei Dan Cheng Clifford Neuman Johnny Wong Gyu Sang Choi Peng Ning Bing Wu Chita Das Michael Oehler Jianjia Wu Jennifer Davidson Daji Qiao Jie Wu Xinwen Fu Cristina Nita-Rotaru Mengjun Xie Qijun Gu Chi-chun Pan Dingbang Xu Yong Guan Dongkook Park Sungwon Yi Kai Hwang Daniel Ragsdale Heng Yin Zhen Yu Douglas Jacobson Douglas Reeves Jin-ha Kim Pierangela Samarati Linfeng Zhang Jongman Kim Geetanjali Sampemane Lixia Zhang Xiaodong Zhang Carl Landwehr Shanshan Song Wenke Lee Jacques Thomas Wei Zhao Mahesh V. Tripunitara Brian Levine Runfang Zhou.

First International Workshop on Services and Infrastructures for the Ubiquitous and Mobile Internet

SIUMI

TBA?

Fourth International Workshop on Distributed Event-Based Systems

DEBS

TBA?

Fifth International Workshop on Smart Appliances and Wearable Computing

IWSAWC

TBA?

The Third International Workshop on Mobile Distributed Computing

MDC

TBA?

Seventh International Workshop on Multimedia Network Systems and Applications MNSA

TBA?

First International Workshop on Mobility in Peer-to-Peer Systems

Prof. Hai Jin, Huazhong University of Science and Technology, Wuhan, 430074, China

Second International Workshop on Wireless Ad Hoc Networking

WWAN

Jeroen Hoebeke Karthikeyan Ravichandran Michel Barbeau Pedro M. Ruiz Stefano Basagni Jennifer Hou Loren Schwiebert Farid Benbadis Luigi Iannone Benoit Latre Jean Carle Fredrik Seehusen Chengzhou Li Ana Cavalli David Simplot-Ryl Kegin Li Romit Roy Choudhury Krishna Sivalingam Marco Conti Xiang-Yang Li Ivan Stojmenovic Aline Carneiro Viana Folker den Braber Stéphane Maag Laura Feenev Jelena Misic Fredrik Vraalsen Afonso Ferreira Amiya Nayak Takashi Watanabe Eric Fleury Stephan Olariu Frédéric Weis Matthias Franck Jean-Marie Orset Jie Wu Cyril Grepet Symeon Papavassiliou