

## ADSN 2005 FINAL PROGRAM

<b>8:20-8:30</b> <b>Opening</b>	General Chair: Kinji Mori, Tokyo Institute of Technology, 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	
<b>8:30-10:00</b> <b>Session 1:</b> <b>Fault-Tolerance and Security</b>  <b>Chair:</b> <b>Yoshiaki Kakuda</b>	Adding Confidentiality to Application-Level Multicast by Leveraging the Multicast Overlay	C. Abad (Escuela Superior Politenica del Litoral), I. Gupta (UIUC), W. Yurcik (National Center for Supercomputing Applications)C.
	A Byzantine Fault-Tolerant Mutual Exclusion Algorithm and its Application to Byzantine Fault-Tolerant Storage Systems	J. M. Kim (Information and Communications University, Korea), Y. Manabe (NTT Cyber Space Laboratory)
	Zmail: Zero-Sum Free Market Control of Spam	B. J. Kuipers, A. X. Liu, A. Gautam, M. G. Gouda (University of Texas at Austin)
<b>10:00-10:30</b>	<b>Coffee Break</b>	
<b>10:30-12:00</b> <b>Session 2:</b> <b>Reliability and Stabilization</b>  <b>Chair: Bill Yurcik</b>	State Checksum and Its Role in System Stabilization	C-T. Huang (University of South Carolina at Columbia), M. G. Gouda (University of Texas at Austin)
	An Optimal Snap-Stabilizing Multi-Wave Algorithm	D. Bein, A. K. Datta (University of Nevada, :Las Vegas), M. H. Karaata, S. Zaman (Kuwait University)
	Reconciling the Theory and Practice of (Un)Reliable Wireless Broadcast	G. Chockler, M. Demirbas, S. Gilbert, N. Lynch, C. Newport, T. Nolte (MIT Computer Science and Artificial Intelligence Lab)
<b>12:00-13:30</b>	<b>Lunch</b>	
<b>13:30-15:00</b> <b>Session 3:</b> <b>Load Balancing</b>  <b>Chair:</b> <b>Chin-Tser Huang</b>	Dynamic Load Balancing Using Network Transferable Computer	M. Hisayuki, S. Inoue, Y. Kakuda (Hiroshima City University), K. Toda, K. Suzuki (National Institute of Advanced Industrial Research and Technology)
	Implementation Issues of Parallel Downloading Methods for a Proxy System	J. Funasaka, A. Kawano, K. Ishida (Hiroshima City University)
	Voting Multi-Dimensional Data with Deviations for Web Services under Group Testing	W-T. Tsai, Y. Chen, D. Zhang, H. Huang (Arizona State University)
<b>15:00-15:30</b>	<b>Coffee Break</b>	
<b>15:30-17:00</b> <b>Session 4:</b> <b>Adaptive Systems</b>  <b>Chair:</b> <b>Murat Demirbas</b>	A New TCP Congestion Control Method Considering Adaptability over Satellite Internet	H. Obata, S. Takeuchi, K. Ishida (Hiroshima City University)
	Improving Mutipath Reliability in Topology – Aware Overlay Networks	C. Tang , P. K. McKinley (Michigan State University)
	Bandwidth Clustering for Reliable and Prioritized Network Routing using Split Agent-based Method	C. X. Mavromoustakis, H. D. Karatza (Aristotle University of Thessaloniki, Greece)
<b>17:00-17:10</b> <b>Closing</b>	Vice Chair: Yoshiaki Kakuda, Hiroshima City University, Japan	

# ADSN 2005

## 4th International Workshop on Assurance in Distributed Systems and Networks

Columbus, Ohio, USA

June 6, 2005

The objective of this Workshop is to provide an effective forum for original scientific and engineering advances in Assurance in Distributed Systems and Networks. Along with recent rapid growth of the Internet and ubiquitous networks, autonomous decentralized systems are connected with each other. In these systems and networks, heterogeneous requirements are independently generated and the requirements themselves are frequently changing. Assurance in these systems and networks is defined as capability of adaptability to heterogeneous and changing requirements. The workshop is of interest in the sense that requirements for assurance in distributed systems and networks are increasing in the future Internet and ubiquitous networks and technologies on assurance including integration of various technologies on real time, fault tolerance, autonomy, mobility and intelligence have high possibilities to cope with complex distributed systems and networks.

### 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

Mirosław Malek, Humboldt-Universität  
zu Berlin, Germany

Hidenori Nakazato, Waseda University,  
Japan

### Program Committee

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Roberto Baldoni, Univ di Roma, Italy

Bharat Bhargava, Purdue University

Murat Demirbas, MIT, USA

Ahmed Farooq, COMTEC, Japan

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University, Japan

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Carolina, USA

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Japan

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Urbana-Champaign, USA