

IAMCOM 2008

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The Second International Workshop on Intelligent Networks: Adaptation, Communications & Reconfiguration

held in conjunction with

COMSWARE 2008

on

**January 10, 2008
Bangalore, India**

at

The Chancery Pavillion
135, Residency Road, Bangalore, 560025, India

The topic of assured communications between the application end-points in a distributed embedded system is quite important for the military, automotive, aerospace, and E-Commerce domains. It synergizes three sub-areas of research: adaptation of system operations to the network resources & environment conditions, reliable communications between end-points in the presence of failures, and self-reconfigurations at various system levels for increased resilience. The topic has spurred the need for Intelligent Networking at various layers of the system architecture to support these critical functionalities.



IAMCOM 2008 will thus offer a unique and focused forum for researchers from academia, government and industry to share ideas and disseminate new results in this important area. This year, the workshop features an invited talk by **K.K.Ramakrishnan, AT&T Research, USA** and a panel discussion on “Cross-layer Design Approaches for Intelligent Networked systems”. We welcome you to participate in IAMCOM 2008.

Workshop Co-Chairs

Kaliappa Ravindran, City University of New York

Andrew Macdonald, General Motors Research

Honorary Chair

L. M. Patnaik, Indian Institute of Science, India

Government Liaison Chair

Kevin Kwiat, US Air Force Research Laboratory, USA

Industry Liaison Chair

Rakesh Sinha, AT&T Research, USA

IAMCOM 2008 Technical Program

8.00 – 8.30 a.m.	Registration
8.30 – 8.45 a.m.	Workshop Chairs' message Kaliappa Ravindran, City University of New York, USA Andrew Macdonald, General Motors Research, USA
8.45 – 9.05 a.m.	Opening Remarks: Convergence of intelligence and control L. M. Patnaik, Indian Institute of Science, India
9.10 – 11.00 a.m.	Technical Session – I
	<ol style="list-style-type: none">1. Network-aware Adaptation with Real-Time Channel Statistics for WLAN Multimedia Transmissions in the Digital Home Dilip Krishnaswamy, Qualcomm, USA and Shanyu Zhao, Intel Mobility Group, Intel Corporation2. A QoS Routing Protocol for Delay-Sensitive Applications in Mobile Ad Hoc Networks Pradeep Macharla, Rakesh Kumar, Anil K. Sarje and M. Misra, Indian Institute of Technology Roorkee3. A Distributed Cooperative Approach To Improve Detection And Removal Of Misbehaving MANET Nodes A. Dadhich, A. K. Sarje and K. Garg, Indian Institute of Technology, Roorkee4. Reduced Task-Resource Assignment Graph Based Static Scheduling for Grid Workflow Application Hao Xianwen, Dai Yu, Zhang Bin, Northeastern University, China; Chen Tingwei, Liaoning University, China
11.00 – 11.20 a.m.	Coffee break
11.20 – 12.00N	Invited Talk: K.K. Ramakrishnan, AT&T Research, USA Role of Adaptation in IP – based Video Distribution
12.00N – 1.00 p.m.	Technical Session – II
	<ol style="list-style-type: none">1. Pre-emption based Call Admission Control with QoS and Dynamic Bandwidth Reservation for Cellular Networks Ankur Guha Roy, Rajdeep Mandal and Iti Saha Misra, Jadavpur University, India; Kalpana Saha (Roy), Govt. College of Ceramic Technology, India2. Scalable Network Multicast for Cooperative Base Stations Andreas Ibing and Volker Jungnickel, Fraunhofer Institute for Telecommunications, Heinrich-Hertz Institut3. Call Admission Control: QoS issue for VoIP Mohammad Asadul Hoque, TM International Bangladesh Limited (AKTEL), Bangladesh and Farhana Afroz, Bangladesh University of Engineering and Technology, Bangladesh4. Overhead Reduction and Energy Management in DSR for MANETs M.Tamilarasi, S.Chandramathi and T.G. Palanivelu, Pondicherry Engg. College, India
1.00 – 2.00 p.m.	Lunch
2.00 – 3.10 p.m.	Panel Session

Title: Cross-layer Design Approaches for Intelligent Networked systems

Moderator: Kaliappa Ravindran, CUNY, USA

Panelists:

1. **Andrew Macdonald**, General Motors, USA
Sensor networks in vehicular applications
2. **James Won-Ki Hong**, POSTECH, S. Korea
Management issues in intelligent networks
3. **Dilip Krishnaswamy**, Qualcomm, USA
Adaptive Processing in Heterogeneous Wireless Systems
4. **Walter Colitti**, Vrije Universiteit, Belgium
QoS support with multi-layer networking

3.10 – 4.00 p.m. Technical Session – III

1. ***Adaptive Multilayer Routing in the Next Generation GMPLS Internet***
W. Colitti, P. Gurzi, K. Steenhaut, and Ann Nowé, Vrije Universiteit Brussel
2. ***Adaptive Lookup for Unstructured Peer-to-Peer Overlays***
K Haribabu, Dayakar Reddy, Chittaranjan Hota, Birla Institute of Technology & Science
Antii Ylä-Jääski, Sasu Tarkoma, Helsinki University of Technology

4.00 – 4.40 p.m. Poster Session with snacks and technical discussions

4.40 – 6.00 p.m. Technical Session – IV: Monitoring and Sensor Networks

1. ***A New Battery and Redundancy Aware Node Scheduling Protocol for Wireless Sensor Networks***
Selvaradjou Kandasamy, Siva Ram Murthy C, Dhanaraj Marudachalam and Goutham Buchi,
Indian Institution of Technology, Madras
2. ***MQTT-S - A Publish/Subscribe Protocol For Wireless Sensor Networks***
Urs Hunkeler and Hong Linh Truong, IBM Research GmbH; Andy Stanford-Clark, IBM UK
Laboratories
3. ***A Dynamic Mining Algorithm of Association Rules for Alarm Correlation in Communication Networks***
Wu Jian and Li Xing ming, University of Electronic Science and Technology of China

6.00 – 6.10 p.m. Closing remarks (workshop chairs)