

IEEE ANTS 2008, www.ieee-ants.org

Day 1: Monday, December 15, 2008 F.C. Kohli Auditorium, IIT Bombay, Mumbai, India

9:00 am - 9:25 am	Inauguration	Director, Deputy Director, Dean Faculty, IIT Bombay Biswanath Mukherjee and Ashwin Gumaste Suresh Subramaniam and Admela Jukan
9:25 am - 10:05 am	Keynote	KN1: Dr. Arun Netravali, President Emeritus Bell Laboratories USA and OmniVC USA.
10:05 am - 10:45 am	Keynote	KN2: Kishor Chaukar, Managing Director, Tata Industries, India.
10:45 am to 11:05 am	Tea Break	
11:05 am to 1:05 pm	Session 1	IT1: Stan Lumish, former CTO, JDSU, USA and Lumish Consulting. IT2: Rama Subramaniam, Head, Systems Engineering, Juniper, India IT3: Kanwal Jawanda, Vice President, Ciena, India. IT4: Kalimani Venkatesan, Manager, Wipro, India. IT5: Kevin Vachon, Chief Operating Officer Metro Ethernet Forum, Canada.
1:05 pm to 2:15 pm	Lunch	
2:15 pm to 3:35 pm	Session 2	IT6: J. Gopal, Executive Director, MTNL, India. IT7: Inder Monga, Director, CTO office, Nortel Networks, USA. IT8: Shivanand Kanavi, Vice President, Tata Consulting Services. IT9: Avinash Joshi, Manager, Tech Mahindra, India IT10: Milorad Cvijetic, Director NEC America, USA.
3:35 pm to 3:55 pm	Tea Break	
3:55 pm to 4:55 pm	Invited talks	KN3: Karamvir Mankad, CTO, Enterprise Business, Reliance ADA, India. IT11: Andy Chinmulgund, Senior Vice President, 2Wire Inc. USA.
5:00 pm to 6:30 pm	Panel 1	Service Provider Panel Moderator: Girish Saraph, CEO, Vegayan Systems and IIT Bombay Participants: Arvind Mathur, Chief Architect, Sify, India. J. Gopal, Executive Director, MTNL. Shekhar Gupta, Director, Embarq, USA. T. V. Sriram, Vice President, Airtel. Sumit Chowdhury, CIO, Reliance Communications.
7:00 pm to 9:00 pm	Reception and Dinner (All attendees are invited)	Venue: Gulmohur Lawns

Day 2: Tuesday, December 16, 2008

9:00 am to 10:15 am Session 3 Service Networks, Chair: **Samrat Ganguly**

RI1: Resilience Enhancement of Home Gateways using Failure Analysis
Sakkaravarthi Ramanathan (France Telecom - Orange Labs, FR) Chidung Lac (France Telecom - Orange Labs, FR)

RI2: Pseudowire VCCV - BFD Vs Ethernet OAM
Narayana Raju Indukuri (Wipro Technologies, IN)

RI3: Automatic Channel Power Control Loops in ROADM Network
Anuj Malik (Ciena Corporation, IN) Sanjay Choudhary (Ciena Corporation, US)

RI4: Utility Computing for the SMB Industry
Vikram Mohan (Tata Consultancy Services, IN)

RI5: Lawful Interception on SBC using SIP
Dhanunjai Nagabhysu (Wipro Technologies, IN) Sudhakar Dhanagopal (Wipro Technologies, IN) Lavanya Venkatesan (Wipro Technologies, IN)

10:15 am to 10:55 am Keynote **KN4: K. Vijaya Kumar, Chief Technology Officer, Wipro Technologies, India.**

10:55 am to 11:15 am Tea Break

11:15 am to 1:05 pm Session 4 Chair: **Biswanath Mukherjee**

IT12: Kevin Rhee, VP, Actus Networks.

RPT1: Broadband Millimeter Wave Networks: Architectures and Applications
Upamanyu Madhow (University of California, Santa Barbara, US)

RPT2: Transparent Optical Network Design with Mixed Line Rates
Avishek Nag (University of California Davis, US) Massimo Tornatore (Politecnico di Milano, IT)

RPT3: An Overlay Architecture for Fault Diagnosis in Video Delivery Networks
Mukundan Venkataraman (University of Central Florida, US) Mainak Chatterjee (University of Central Florida, US)

RPT4: Service Cloaking and Authentication at Data Link Layer
Arun Kumar S P (CAIR, IN)

RPT5: A Concurrent Multi-Layer Restoration Scheme for GMPLS-based WDM Networks
Seshadri Mohan (University of Arkansas at Little Rock, US) Rabindra Ghimire (University of Arkansas at Little Rock, US) Michael Leary (Space Photonics, Inc., US) Terry Tidwell (Space Photonics, Inc., US)

RPT6: Multi-Point Ethernet-over-SONET/SDH Services
Chongyang Xie (University of New Mexico, US) Nasir Ghani (University of New Mexico, US) Qing Liu (University of New Mexico, US) Rolande Kouatang (University of New Mexico, US) Wei Shu (The University of New Mexico, US) Yan Qiao (Shanghai Jiaotong University, CN) Min-You Wu (Shanghai JiaoTong University, CN)

1:05 pm to 2:15 pm Lunch

2:15 pm to 4:05 pm Session 5 Chair:

IT13: Vinay Ribero, IIT Delhi.

IT14: Raj Jain, Washington University at St. Louis, USA.

RPT7: Fast Updated Markov Based Split Reservation Protocol in WDM Optical Networks
Malabika Sengupta (Kalyani Govt. Engineering College, IN) Swapan Mondal (Kalyani Government Engineering College, IN) Chayanika Bose (Reader, IN) Debashis Saha (Indian Institute of Management (IIM)- Calcutta, IN)

RPT8: Dynamic Bandwidth Provisioning and Survivability in IP over WDM Network
Amitava Mukherjee (IBM India Pvt Ltd, Calcutta, India, IN) Amitangshu Pal (Jadavpur University, IN) Mrinal Naskar (Jadavpur University, IN) Palash Dey (Jadavpur University, IN) Arkadeep Kundu (Jadavpur University, IN)

RPT9: Peer-to-Peer Streaming: Lowering barrier to entry in IPTV
Saurabh Tewari (Yahoo! Inc., US) Satish Menon (Yahoo! Inc., US)

RPT10: Performance Evaluation of the WiMedia MAC Protocol in High Density Wireless Environments
Frank Leipold (EADS Innovation Works, DE) Sergio Bovelli (European Aeronautic Defence and Space Company, DE) Bernd M^uller-Rathgeber (Technische Universit^at M^unchen, DE) Simon Brandner (University of Technology Munich, DE)

RPT11: Shared versus Dedicated Buffers for Real-Time Traffic in Optical Routers with Very Small Buffers
Arun Vishwanath (University of New South Wales, AU) Vijay Sivaraman (University of New South Wales, AU)

RPT12: Impact of Bounded Jitter on Resource Consumption in Multi-hop Networks
Ling Wang (The University of Oklahoma, US) Pramode Verma (The University of Oklahoma, US)

4:05 pm to 4:25 pm	Tea Break	
4:25 pm to 5:35 pm	Panel 2:	Telecommunications Research in India: An Academic Perspective. Moderator: Krishna Sivalingam, Professor IIT Madras Participants: B. N. Jain, Deputy Director, IIT Delhi Debasis Datta, Professor, IIT Kharagpur Debasis Saha, Professor, IIM Calcutta R.K. Shevgaonkar, Deputy Director, IIT Bombay T. Gonzales, Professor, IIT Madras Anupam Joshi, IBM IRL India. Vikram Srinivasan, Bell Laboratories, India
5:35 pm to 6:45 pm	Panel 3:	Unified Communications and Business Methods Moderator: Venky Krishnaswamy, Director, Avaya, USA Participants: Nandkumar Sarvade, CIO, ICICI Bank Mr. Nath, CIO, State Bank of India (SBI) Deepak Kataria, Director, LSI Inc. Ashit Talukdar, Sr Scientist, JPL, USA.
7:00 pm to 9:00 pm	Authors' dinner (All authors are invited. Others by invitation only.)	Gulmohur Terrace

Day 3: Wednesday, December 17, 2008

9:00 am to 10:20 am Session 6 Chair: **Madhukar Pitke**

RPT13: Implementation Scheme for End-to-end Quality of Service (QoS) Sessions over Internet

Rajesh Joshi (Indian Institute of Technology Bombay, IN) Girish Saraph (Indian Institute of Technology, Bombay, IN)

RPT14: Proactive Loss Recovery using Forward Segment Redundancy in Optical Burst-Switched (OBS) Networks

Deepak Chandran (University of Massachusetts Dartmouth, US) Neal Charbonneau (University of Massachusetts Dartmouth, US) Vinod Vokkarane (University of Massachusetts Dartmouth, US)

RPN1: Fast Dual-Radio Cross-Layer Handoffs in Multi-Hop Infrastructure-mode 802.11 Wireless Networks for In-Vehicle Multimedia Infotainment

Jayaraj Poroor (Amrita Vishwa Vidyapeetham (Amrita University), IN)

RPN2: An Efficient and Optimized Bluetooth Scheduling Algorithm for Scatternets

G. Ramana Reddy (Indian Institute of Science, IN) Shalabh Bhatnagar (Indian Institute of Science, IN)

RPN3: Benefits of Inter-Flow Bandwidth Sharing in Broadband Wireless Infrastructure Networks

Sandeep Ahuja (ECE Department university of Arizona, US) Abishek Gopalan (University of Arizona, US) Srinivasan Ramasubramanian (The University of Arizona, US)

RPN4: Steganography in 802.15.4 Wireless Communication

Ankur Mehta (University of California Berkeley, US) Steven Lanzisera (University of California - Berkeley, US) Kristofer Pister (UC Berkeley, US)

RPN5: A Scalable and Computationally Efficient Localization Algorithm for WSNs

Gopakumar A (National Institute of Technology-Calicut, India, IN) Lillykutty Jacob (National Institute of Technology Calicut, India, IN)

10:20 am to 11:00 am Keynote **KN 5: Paravin Desale**, India, Managing Director, LSI Inc.

11:00 am to 11:20 am Tea Break

11:20 am to 1:10 pm Session 7 Chair: **Seshadri Mohan**

IT15: *Arun Somani, Anson Marston Distinguished Professor, Iowa State University, USA.*

IT16: *Weisheng Hu, Professor, Shanghai Jiao tong University, China.*

IT17: *Ashit Talukdar, Jet Propulsion Laboratory, (JPL), USA.*

RPN6: Greedy Scheduling in Multihop Wireless Networks

Nachiket Sahasrabudhe (Indian Institute of Science, IN) Joy Kuri (Indian Institute of Science, IN)

RPN7: Loner Links Aware Routing and Scheduling in WMNs

Parth Pathak (North Carolina State University, US) Divya Gupta (Microsoft Corporation, US) Rudra Dutta (North Carolina State University, US)

RPN8: Layer Manager Controlled Mobility Management on Wireless Overlay Networks

Asish Mukhopadhyay (Dr.B.C.Roy Engineering College, IN) Debashis Saha (Indian Institute of Management (IIM)- Calcutta, IN)

RPN9: Experimental Investigation of IEEE 802.11e EDCA

Saty Mukherjee (Aston University, UK) Xiaohong Peng (Aston University, UK)

RPN10: Wireless Backhaul for LTE - Requirements, Challenges and Options

Kalimani Venkatesan Govindarajan (Wipro Technologies, IN) Kishor Kulkarni (Wipro, IN)

1:10 pm to 2:15 pm Lunch

2:15 pm to 4:15 pm Session 8 Chair: **Suresh Subramaniam**

KN=Keynote (40 mins), IT=Invited Talk, RPT=Research Paper Telecom (15 min),
RPN=Research Paper Non-Telecom (10 min), P=poster session, RI=Research Industry (15 min).

KN6: Vijay Yadav, Managing Director, UT-Starcom, India.
IT18: Venky Krishnaswamy, Director, Avaya Laboratories, NJ, USA.
IT19: Atul Strivastava, CEO, One Terabit Inc, USA.
IT20: Krishnaiyan Thulisaraman, Hitachi Chair Professor, University of Oklahoma, USA.
IT21: H. S. Jamadagni, Professor, Indian Institute of Science (IISc) Bangalore .

RPT15: Evaluation of a Buffered Time-Wavelength Crossconnect with Sparse Wavelength Converters

Arush Gadkar (The George Washington University, US)

RPT16: Resource Provisioning Through Traffic-Aware Code Allocation in a Hybrid PON Employing WDM and OCDMA

Ratnam Jayashree (Ex-Research Scholar, IN) Saswat Chakrabarti (Indian Institute Of Technology, Kharagpur, IN) Debasish Datta (Indian Institute of Technology, Kharagpur, IN)

RPT17: Mathematical Model and Analysis of Peer-to-peer IPTV

Hao Liu (Georgia Tech, US)

RPN11: A Bandwidth-Efficient Scheme for Distributed Storage Systems

Najmeh Alsadat Bathaee (Sharif University of Technology, IR) Mohammad Reza Pakravan (Sharif University of Technology, IR)

4:15 pm to 5:00 pm Extended Tea Break and Poster Session (see Posters below)

Poster Session Foyer Chair: **Rudra Dutta**

P1: An Improved Frequency Offset Estimation Algorithm by Multi-Band Averaging Method for MB-OFDM based UWB Communication for WPAN Applications
Debarati Sen (Indian Institute of Technology Kharagpur, IN)

P2: Evaluation of the Hybrid Bootstrap Mechanism for Multicast Routing
Toshinori Takabatake (Shonan Institute of Technology, JP)

P3: Improving Uploading Performance of TCP in Network Mobility
Bhaskar Sardar (Jadavpur University, IN) Mita Nasipuri (Jadavpur University, IN) Debashis Saha (Indian Institute of Management (IIM)- Calcutta, IN) Mahbub Hassan (University of New South Wales, AU)

P4: Energy-Efficient Area Covering by Sensors with Two Adjustable Sensing and Communication Ranges
Sergey Astrakov (Russian State University of Trade and Economics, RU) Adil Erzin (Sobolev Institute of Mathematics, SB RAS, RU) Soumyendu Raha (Indian Institute of Science, IN) Vyacheslav Zalyubovskiy (Sobolev Institute of Mathematics, SB RAS, RU)

P5: A Dynamic Bandwidth Guaranteed Routing Using Heuristic Search for Clustered
Gajaruban Kandavanam (TSSG, Waterford Institute of Technology, IE) Dimitri Botvich (Waterford Institute of Technology, IE) Sasitharan Balasubramaniam (TSSG, Waterford Institute of Technology, IE)

P6: Review of Standard ITU-T K-60 Procedures for Unintentional Interference Measurements in Broadband over Power Line Systems
Claiton Colvero (National Institute of Metrology, Standardization and Industrial Quality, BR)

P7: A Protocol for Quality of Service Aware Routing in Ad hoc Networks
Ash Mohammad Abbas (Aligarh Muslim University, IN)

P8: Design and Analysis of New Code Families for Three-Dimensional OCDMA
Ravi Maddila (Indian Institute of Technology Kharagpur, IN) Sant Pathak (I.I.T.Kharagpur, IN) Nirmal Chakrabarti (Indian Institute of Technology Kharagpur, IN)

P9: Clustering and Prefetching techniques for Network-based Storage Systems
Dhawal Thakker (Middlesex University, UK)

P10: Delay and Throughput Trade-Off in WiMAX Mesh Networks
Saeed Bastani (Iran Telecommunication Research Center, IR) Saleh Yousefi (Iran university of science and technology, IR) Mojtaba Mazoochi (Iran Telecommunication Research Center, IR) Alireza Ghiamatyoun (University of Tehran, IR)

P11: Comparative Cost Study of Broadband Access Technologies
Pulak Chowdhury (University of California, Davis, US) Suman Sarkar (University of California at Davis, US) Abu Ahmed Reaz (University of California, Davis, US)

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RPN=Research Paper Non-Telecom (10 min), P=poster session, RI=Research Industry (15 min).

P12: Performance of MMSPEED routing protocol for H.264 video transmission in WMSN
Saeed Darabi (University of Tehran, IR) Nasser Yazdani (University of Tehran, IR) Omid Fatemi (University of Tehran, IR)

P13: Secure Group Communication for Wireless Sensor Network
Somanath Tripathy (IIITM Gwalior, IN) Sukumar Nandi (Indian Institute of Technology, Guwahati, IN)

P14: Adaptive Advance Reservation Based Inter-Domain Framework
Mohit Chamania (Technische Universität Carolo-Wilhelmina zu Braunschweig, DE) Xiaomin Chen (Technische Universität Carolo-Wilhelmina zu Braunschweig, DE) Admela Jukan (Technische Universität Carolo-Wilhelmina zu Braunschweig, DE)

P15: An efficient data structure for storing network intrusion detection dataset
Neminath Hubballi (Indian Institute of Technology Guwahati, IN)

P16: Design and Analysis of a Quasi Colourless Multi-wavelength 2-port Edge-ROADM
Prita Nair (SSN College of Engineering, IN) Renil Kumar (SSN College of Engineering, IN)

P17: Flow-Aware Channel Assignment for Multi-Radio Wireless-Optical Broadband Access Network
Abu Ahmed Reaz (University of California, Davis, US) Vishwanath Ramamurthi (University Of California, Davis, US)
Suman Sarkar (University of California at Davis, US)

P18: Robust Traffic Engineering
Himanshu Agrawal (Research Student, AU) Andrew Jennings (RMIT University, AU) Mark Gregory (Senior Lecturer, AU)

5:00 pm to 6:10 pm

Panel 4

Opportunities in Telecommunications

Moderator: *Deepak Kataria, Rutgers University.*

Participants:

Saragur Srinidhi, Prometheus Consulting.

Pravin Bhagwat, Airtight Networks USA.

K. Raghuv eer, GM, Infosys India.

H. S. Balaji, Director, Tech Mahindra

Dipankar Banerjee, VP, Wipro Technologies.

Himanshu Sahu, Director, UT Starcom.

Hitesh Jain, Head Tele System.

Peter Kwong, CEO, Actus.

6:10 pm to 7:20 pm

Session

Wireless Telecommunication Networks
(refreshments will be served)

Organizer: *Samrat Ganguly, NEC America*

Speakers:

IT22: *Girija Naralika r, Bell Laboratories.*

IT23: *C. S. Rao, Intel Inc. USA.*

IT24: *Bhaskar Ramamurthi, Professor and Dean, IIT Madras.*

IT25: *Rob Roy Wi2Wi, USA.*

7:20 pm

Concluding Remarks and IEEE ANTS 2009 information:

Biswanath Mukherjee and Ashwin Gumaste.

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Suresh Subramaniam, George Washington University, USA

Admela Jukan, Technical University of Braunschweig, Germany

Industry Chairs:

Deepak Kataria, LSI Inc. USA

Samrat Ganguly, NEC, USA

Publicity Chairs:

Rudra Dutta, North Carolina State University, USA

Jianping Wang, City University of Hongkong, PRC

Sridhar Iyer, IIT Bombay, India

Tutorial Chair:

Abhay Karandikar, IIT Bombay, India

Panels Chair:

Girish Saraph, IIT Bombay, India and Vegayan Systems

Local Arrangements:

Santosh Rana (Chair)

Raviraj Vaishampayan

Ishan Arora

Tamal Das

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