

# 17th International Conference on Computer Communications and Networks (ICCCN 2008) Conference Program

Date	Time	Harbor I	Harbor II	Harbor III	Island I/II	Island III/IV	Island V/VI
Sun (August 3)	8:30 - 11:30		S1.1: Qualcomm-sponsored Tutorial 1: Overview of Advanced Technologies in Ultra Mobile Broadband Communication Systems Presenter: Michael Wang, Qualcomm, USA	S1.2: Qualcomm-sponsored Tutorial 2: Game Theory for Wireless Networks Presenter: Mainak Chatterjee, University of Central Florida, USA			
	11:30-13:00	SL: Lunch					
	13:00-17:00		S2.1: Qualcomm-sponsored Tutorial 3: Digital Media Distribution: Trends, Challenges and Opportunities Presenters: Sanjoy Paul, InfoSys Technologies Limited, USA; Katherine Guo, Bell Labs, Alcatel-Lucent, USA	S2.2: Qualcomm-sponsored Tutorial 4: Distributed Source Coding and its Applications Presenters: Vladimir Stankovic and Lina Stankovic, University of Strathclyde, Glasgow, UK; Samuel Cheng, University of Oklahoma, USA			

## Sunday, Aug 3

### 8:30 AM - 11:30 AM

#### S1.1: Qualcomm-sponsored Tutorial 1: Overview of Advanced Technologies in Ultra Mobile Broadband

##### Communication Systems

Presenter: Dr. Michael Wang, Qualcomm, USA  
Harbor II

#### S1.2: Qualcomm-sponsored Tutorial 2: Game Theory for Wireless Networks

Presenter: Prof. Mainak Chatterjee, University of Central Florida, USA  
Harbor III

### 11:30 AM - 1:00 PM

## **SL: Lunch (on your own)**

Harbor Foyer

## **1:00 PM - 4:00 PM**

### **S2.1: Qualcomm-sponsored Tutorial 3: Digital Media Distribution: Trends, Challenges and Opportunities**

Presenters: Dr. Sanjoy Paul, InfoSys Technologies Limited, USA and Dr. Katherine Guo, Bell Labs, Alcatel-Lucent, USA

Harbor II

### **S2.2: Qualcomm-sponsored Tutorial 4: Distributed Source Coding and its Applications**

Presenters: Dr Vladimir Stankovic and Dr. Lina Stankovic, University of Strathclyde, Glasgow, UK; Dr. Samuel Cheng, University of Oklahoma, USA

Harbor III

Date	Time	Harbor I	Harbor II	Harbor III	Island I/II	Island III/IV	Island V/VI
Mon (August 4)	7:00-8:00	MBF: Breakfast					
	8:00-8:15	M1: Plenary Session (Harbor I) General Chair: Haohong Wang (Marvell Semiconductors, US) TPC Chair: Byrav Ramamurthy (University of Nebraska-Lincoln)					
	8:15 - 9:30	M2: Keynote I: Sensing the Next Tier of the Internet (Harbor I) Speaker: Dr. David E. Culler (CTO of Arch Rock Corporation), University of California-Berkeley Chair: Haohong Wang (Marvell Semiconductors, USA)					
	9:15-9:45	MB1: Break					
	9:45-11:45		M3.1: Best Paper Candidates - I Chair: Chair: Byrav Ramamurthy (University of Nebraska-Lincoln, USA)	M3.2: Network Virtualization and Node Design (FIAP1) Distinguished Speaker: George Rouskas Chair: Sergey Gorinsky (Washington University in St. Louis, USA)	M3.3: Network Algorithms and Analysis (NAPE 1) Chair: Pavan Balaji (Argonne National Laboratory, USA)	M3.4: Resource Management (PCMN 1/WSN) Chair: Jiannong Cao (Hong Kong Polytechnic Univ, Hong Kong)	
	11:45-13:00	ML: Lunch (on your own)					
	13:00-14:30		M4.1: Best Paper Candidates - II Chair: Chair: Arun Somani (Iowa State University, USA)	M4.2: Wireless Sensor Networks (WSN 1) Distinguished Speaker: P.R. Kumar Chair: Alvin Lim (Auburn University, USA)	M4.3: Network Architectures and Deployment Incentives (FIAP2) Chair: Tilman Wolf (University of Massachusetts, USA)	M4.4: 3G and Beyond and WiFi (NGWN/NS) Chair: Bala Natarajan (Kansas State University, USA)	
	14:30-14:45	MB2: Break					
	14:45-16:15		M5.1: Quality of Service (QoS 1) Distinguished Speaker: Guoliang Larry Xue Chair: Niki Pissinou (Florida International University, US)	M5.2: Sensor and ad hoc nets (WSN) Distinguished Speaker: Mukesh Singhal Chair: Xiaolin Li (Oklahoma State University, USA)	M5.3: Internet and Multimedia (ISA/MNET) Chair: Aaron Striegel (University of Notre Dame, USA)	M5.4: Network Measurements and Performance Evaluation (NAPE 2) Chair: Kartik Gopalan (State University of New York at Binghamton, USA)	
	16:15-16:30	MB3: Break					
	16:30-17:30	M6: Panel 1: Pervasive and Mobile Computing: Continued Challenges and Opportunities (Harbor I) Moderator: Prof. Sajal Das, University of Texas at Arlington, USA					
	18:30-20:00	RN: Reception (Harbor IV)					

## Monday, Aug 4

**7:00 AM - 8:00 AM**

**MBF: Breakfast**

Harbor Foyer

**8:00 AM - 8:15 AM**

**M1: Plenary Session**

General Chair: Haohong Wang (Marvell Semiconductors, US); TPC Chair: Byrav Ramamurthy (University of Nebraska-Lincoln)  
Harbor I

**8:15 AM - 9:30 AM**

**M2: Keynote I: Sensing the Next Tier of the Internet**

Keynote Speaker: Dr. David E. Culler (NAE Member, IEEE Fellow, ACM Fellow), Howard Friesen Chair Professor, University of California, Berkeley, CTO, Arch Rock Corporation  
Harbor I                      Chair: Haohong Wang (Marvell Semiconductors, USA)

## **9:30 AM - 9:45 AM**

### **MB1: Break (15 min)**

Harbor Foyer

## **9:45 AM - 11:45 AM**

### **M3.1: Best Paper Candidates - I**

Harbor II                      Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

Inter-Domain Routing Scalability in Optical DWDM Networks

Qing Liu (University of New Mexico, USA); Chongyang Xie (University of New Mexico, USA); Tannous Frangieh (University of New Mexico, USA); Nasir Ghani (University of New Mexico, USA); Ashwin Gumaste (Indian Institute of Technology, Bombay/Massachusetts Institute of Technology, India); Nageswara Rao (Oak Ridge National Laboratory, USA); Tom Lehman (University of Southern California Information Sciences Institute, USA)

On Virtualizing Ethernet Switches

Mark McGinley (University of Virginia, USA); Tao Li (University of Virginia, USA); Malathi Veeraraghavan (University of Virginia, USA)

Publish/Subscribe Service in CAN-based P2P Networks: Dimension Mismatch and The Random Projection Approach

Duc Tran (UMass Boston, USA); Thanh Nguyen (Oregon State University, USA)

A Novel Anti-Collision Protocol for Energy Efficient Identification and Monitoring in RFID-Enhanced WSNs

Dheeraj Klair (University of Wollongong, Australia); Kwan-Wu Chin (University of Wollongong, Australia)

### **M3.2: Network Virtualization and Node Design (FIAP1)**

Harbor III                      Sergey Gorinsky (Washington University in St. Louis, USA)

The Design of A Programmable Network Edge Node with Hybrid Multi-core Processors for Virtual Networks

Yan Luo (University of Massachusetts Lowell, USA); Chunhui Zhang (University of Massachusetts Lowell, USA)

Flexible Classification on Heterogenous Multicore Appliance Platforms

Priyanka Tembey (Georgia Institute Of Technology, USA); Anish Bhatt (Georgia Institute Of Technology, USA); Dulloor Rao (Georgia Institute Of Technology, USA); Ada Gavrilovska (Georgia Institute of Technology, USA); Karsten Schwan (Georgia Tech, USA)

CODED IP: on the Feasibility of IP-layer Network Coding

Zheng Huang (Fudan University, P.R. China); Xunrui Yin (Fudan University, P.R. China); Xin Wang (Fudan University, P.R. China); Jin Zhao (Fudan University, P.R. China); Xiangyang Xue (Fudan University, P.R. China)

Invited Talk: A composable network architecture for enabling cross-layer interactions (Prof. George Rouskas)

### **M3.3: Network Algorithms and Analysis (NAPE 1)**

Island I/II Pavan Balaji (Argonne National Laboratory, USA)  
 STRID: Scalable Trigger-based Route Incidence Diagnosis  
 Feng Wang (Liberty University, USA); Lixin Gao (University of Massachusetts at Amherst, USA); Oliver Spatscheck (AT&T Labs - Research, USA); Jia Wang (AT&T Labs - Research, USA)  
 Improving Load Balancing with Multipath Routing  
 Pascal Merindol (University Louis Pasteur, France); Jean-Jacques Pansiot (LSIIT - University Louis Pasteur, France); Stephane Cateloin (LSIIT University Louis Pasteur, France)  
 Localized Bridging Centrality for Distributed Network Analysis  
 Soumendra Nanda (BAE Systems Advanced Information Technologies, USA); David Kotz (Dartmouth College, USA)  
 A Distributed Routing Algorithm for Networks with Data-Path Services  
 Xin Huang (University of Massachusetts Amherst, USA); Sivakumar Ganapathy (University of Massachusetts, USA); Tilman Wolf (University of Massachusetts, USA)  
 Jitter Buffer Analysis  
 Moshe Sidi (Technion, Israel); Boris Oklander (Technion, Israel)

### **M3.4: Resource Management (PCMN 1/WSN)**

Island III/IV Jiannong Cao (Hong Kong Polytechnic Univ, Hong Kong)  
 An Empirical Energy Model for Supercapacitor Powered Wireless Sensor Nodes  
 Geoff Merrett (University of Southampton, United Kingdom); Alex Weddell (University of Southampton, United Kingdom); Adam Lewis (University of Southampton, United Kingdom); Nick Harris (University of Southampton, United Kingdom); Bashir Al-Hashimi (University of Southampton, United Kingdom); Neil White (University of Southampton, United Kingdom)  
 Top K-leader Election in Wireless Ad Hoc Networks (Invited Paper)  
 Vaskar Raychoudhury (The Hong Kong Polytechnic University, Hong Kong); Jiannong Cao (Hong Kong Polytechnic Univ, Hong Kong); Weigang Wu (The Hong Kong Polytechnic University, P.R. China)  
 Iterative decoding for redistributing energy consumption in wireless sensor networks  
 Robert Maunder (University of Southampton, United Kingdom); Alex Weddell (University of Southampton, United Kingdom); Geoff Merrett (University of Southampton, United Kingdom); Bashir Al-Hashimi (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)  
 A Hybrid Anycast Routing Protocol for Load Balancing in Heterogeneous Access Networks  
 Kashif Sharif (University of North Carolina at Charlotte, USA); Lijuan Cao (UNC Charlotte, USA); Yu Wang (University of North Carolina at Charlotte, USA); Teresa Dahlberg (University of North Carolina - Charlotte, USA)  
 Resource Management Schemes for Multiple Traffic in Integrated Heterogeneous Wireless and Mobile Networks  
 Wei Shen (University of Cincinnati, USA); Qing-An Zeng (University of Cincinnati, USA)

**11:45 AM - 1:00 PM**

**ML: Lunch (on your own)**

Harbor Foyer

**1:00 PM - 2:30 PM**

**M4.1: Best Paper Candidates - II**

Harbor II            Arun Somani (Iowa State University, USA)  
 Fair Randomized Antenna Allocation in Asynchronous MIMO Multi-hop Networks  
                         Ahmed Khattab (Rice University, USA); Ashutosh Sabharwal (Rice University, USA); Edward  
                         Knightly (Rice University, USA)  
 Bandwidth Consumption Control and Service Differentiation for Video Streaming  
                         Can Basaran (SUNY Binghamton, USA); Kyoung-Don Kang (State University of New York,  
                         Binghamton, USA, USA); Mehmet Suzer (SUNY Binghamton, USA); Kisook Chung (ETRI,  
                         Korea); Hae-Ryong Lee (ETRI, Korea); Kwang-Roh Park (ETRI, Korea)  
 Control Message Reduction Techniques in Backward Learning Ad Hoc Routing Protocols  
                         Navodaya Garepalli (State University of new York at Binghamton, USA); Kartik Gopalan (State  
                         University of New York at Binghamton, USA); Ping Yang (Binghamton University, USA)

## **M4.2: Wireless Sensor Networks (WSN 1)**

Harbor III            Alvin Lim (Auburn University, USA)  
 Invited Talk: Wireless networking: From communication to sensing and actuation (Prof. P.R. Kumar)  
 Traffic Data Processing in Vehicular Sensor Networks  
                         Xu Li (Shanghai Jiao Tong University, P.R. China); Wei Shu (The University of New Mexico,  
                         USA); Ming-Lu Li (Shanghai Jiao Tong University, P.R. China); Pei'en Luo (Shanghai Jiao Tong  
                         University, P.R. China); Hongyu Huang (Shanghai Jiao Tong University, P.R. China); Min-You  
                         Wu (Shanghai JiaoTong University, P.R. China)  
 Multi-modal Target Tracking using Heterogeneous Sensor Networks  
                         Manish Kushwaha (Vanderbilt University, USA); Isaac Amundson (Vanderbilt University, USA);  
                         Peter Volgyesi (Vanderbilt University, USA); Parvez Ahammad (Howard Hughes Medical  
                         Institute, USA); Gyula Simon (University of Pannonia, Hungary); Xenofon Koutsoukos  
                         (Vanderbilt University, USA); Akos Ledecz (Vanderbilt University, USA); Shankar Sastry (UC  
                         Berkeley, USA)

## **M4.3: Network Architectures and Deployment Incentives (FIAP2)**

Island I/II            Tilman Wolf (University of Massachusetts, USA)  
 A System Architecture for Evolving Protocol Stacks (Invited Paper)  
                         Ariane Keller (ETH Zurich, Switzerland); Theus Hossmann (ETH Zurich, Switzerland); Martin  
                         May (ETH Zurich, Switzerland); Ghazi Bouabene (University of Basel, Switzerland); Christophe  
                         Jelger (University of Basel, Switzerland); Christian Tschudin (University of Basel, Switzerland)  
 Deconstructing the Network layer  
                         Onur Ascigil (University of Kentucky, USA); Song Yuan (University of Kentucky, USA); James  
                         Griffioen (University of Kentucky, USA); Ken Calvert (University of Kentucky, USA)  
 The RNA Metaprotocol  
                         Joe Touch (USC/ISI, USA); Venkata Pingali (University of Southern California, USA)  
 Can Bilateral ISP Peering Lead to Network-wide Cooperative Settlement  
                         Yang Cheung (The Chinese University of Hong Kong, Hong Kong); Dah Ming Chiu (The Chinese  
                         University of Hong Kong, Hong Kong); Jianwei Huang (The Chinese University of Hong Kong,  
                         Hong Kong)

## **M4.4: 3G and Beyond and WiFi (NGWN/NS)**

Island III/IV        Bala Natarajan (Kansas State University, USA)  
 Empirical Analysis of Authentication Process in a Cooperative B3G Network  
                         Jenq-Shiou Leu (National Taiwan University of Science and Technology, Taiwan)  
 Soft Combining ARQ Techniques for Wireless Systems Employing SC-FDE Schemes  
                         Rui Dinis (IST, Portugal); Paulo Montezuma (FCT-UNL, Portugal); João Martins  
                         (FCT/Universidade Nova de Lisboa, Portugal)

Modeling and Forecasting Secondary User Activity in Cognitive Radio Networks

Lutfu Akter (Kansas State University, USA); Bala Natarajan (Kansas State University, USA);  
Caterina Scoglio (Kansas State University, USA)

A lightweight solution for defending against deauthentication/disassociation attacks on 802.11 networks

Thuc Nguyen (Vietnamese National University at HCMC, University of Natural Sciences,  
Vietnam); Duc Nguyen (Ton Duc Thang University, Vietnam); Bao Tran (HCMC University of  
Pedagogy, Vietnam, Vietnam); Hai Vu (University of Texas at Dallas, USA); Neeraj Mittal (The  
University of Texas at Dallas, USA)

## **2:30 PM - 2:45 PM**

### **MB2: Break (15 min)**

Harbor Foyer

## **2:45 PM - 4:15 PM**

### **M5.1: Quality of Service (QoS 1)**

Harbor II Suresh Subramaniam (The George Washington University, USA)

Invited Talk: Multiconstrained QoS Routing: Advances and Challenges (Prof. Guoliang Larry Xue)  
On QoS Guarantees with Reward Optimization for Servicing Multiple Priority Classes in Wireless  
Networks

Okan Yilmaz (Virginia Tech, USA); Ing-Ray Chen (Virginia Tech, USA)

Weighted-Fairness AIMD Congestion Control for Streaming Media Delivery

Jun Liu (University of North Dakota, USA)

### **M5.2: Sensor and ad hoc nets (WSN)**

Harbor III Xiaolin Li (Oklahoma State University, USA)

Clique-based Location Estimations for Wireless Sensors in GPS-free Environments

Patryk Mazurkiewicz (Imperial College London, United Kingdom); Kin Leung (Imperial College,  
United Kingdom)

A Wrapper-Based Approach to Sustained Time Synchronization in Wireless Sensor Networks

Dheeraj Bheemidi (Cleveland State University, USA); Nigamanth Sridhar (Cleveland State  
University, USA)

Invited Talk: A New Model for Robust Routing in Large Mobile Ad Hoc Networks (Prof. Mukesh Singhal)

### **M5.3: Internet and Multimedia (ISA/MNET)**

Island I/II Aaron Striegel (University of Notre Dame, USA)

Addressing Heterogeneity, Scalability, and Privacy in Layered Multicast Congestion Control

Sergey Gorinsky (Washington University in St. Louis, USA); K. K. Ramakrishnan (AT&T Labs.  
Research, USA); Harrick Vin (University of Texas at Austin, USA)

Congestion Control for Scalable VBR Video with Packet Pair Assistance

Bjørnar Libæk (Norwegian University of Science and Technology, Norway); Oivind Kure  
(NTNU, Norway)

A Novel Service-Aware Message Scheduler for Cisco Application Oriented Networking Systems

Jingnan Yao (Cisco Systems, USA); Jason Ding (Cisco Systems, USA); Laxmi Bhuyan  
(University of California, USA)

Seamless Video Transmission over Wireless LANs based on an Effective QoS Model and Channel State Estimation

ByungJoon Oh (Florida Institute of Technology, USA); Guogang Hua (Qualcomm Inc., USA);  
Chang Wen Chen (State University of New York at Buffalo, USA)

## **M5.4: Network Measurements and Performance Evaluation (NAPE 2)**

Island III/IV      Kartik Gopalan (State University of New York at Binghamton, USA)

A Measurement Study on Link Capacity of a High Stress IEEE 802.11b/g Network

Michael Juang (Clemson University, USA); Kuang-Ching Wang (Clemson University, USA); Jim  
Martin (Clemson, USA)

Impact of Network Sharing in Multi-core Architectures

Ganesh Narayanaswamy (Virginia Polytechnic Institute and State University, USA); Pavan Balaji  
(Argonne National Laboratory, USA); Wu-chun Feng (Virginia Tech, USA)

IRM: Integrated File Replication and Consistency Maintenance in P2P Systems

Haiying Shen (University of Arkansas, USA)

Massively Parallel Anomaly Detection in Online Network Measurement

Shashank Shanbhag (University of Massachusetts, USA); Tilman Wolf (University of  
Massachusetts, USA)

## **4:15 PM - 4:30 PM**

### **MB3: Break (15 min)**

Harbor Foyer

## **4:30 PM - 5:30 PM**

### **M6: Panel 1: Pervasive and Mobile Computing: Continued Challenges and Opportunities**

#### **Moderator:**

Prof. Sajal Das, University of Texas at Arlington, USA

#### **Panelists:**

Prof. Jie Wu, NSF, USA (Director, IEEE Distinguished Visitor)

Prof. Jiannong Cao, Hong Kong Polytechnic University, Hong Kong

Dr. Lavy Libman, NICTA, Sydney, Australia

Prof. P.R. Kumar, University of Illinois at Urbana Champaign, USA (NAE member, IEEE Fellow)

Harbor I

## **6:30 PM - 8:00 PM**

### **RN: Reception**

Harbor IV



Date	Time	Harbor I	Harbor II	Harbor III	Island I/II	Island III/IV	Island V/VI
Tue (August 5)	7:00-8:00	TBF: Breakfast					
	8:00 - 9:15	T1: Keynote II: Telecom Networks: The Road Ahead (Harbor I) Speaker: Biswanath Mukherjee, University of California-Davis Chair: Byrav Ramamurthy (University of Nebraska-Lincoln, USA)					
	9:15-9:45	TB1: Break					
	9:45-11:45		T2.1: Optical Grooming and OBS (ON 1) Distinguished Speaker: Ronald Luijten Chair: George Rouskas (NCSU)	T2.2: Internet Peer-to-Peer Technologies (ISA 1) Distinguished Speaker: K.K. Ramakrishnan Chair: Duc Tran (UMass Boston, USA)	2.3: Video, Coding and Signal Processing (SPC) Chair: Weisi Lin (Nanyang Technological University, Singapore)	T2.4: Routing and topology control (PAWN 1/WSN) Chair: Arunita Jaekel (School of Computer Science, University of Windsor, Canada)	
	11:45-13:00	TL: Lunch (on your own)					
	13:00-14:00	T3: Panel 2: Sensor Networks: Future Challenges and Applications (Harbor I) Moderator: Tarek Abdelzaher, University of Illinois at Urbana Champaign, USA					
	14:00-14:15	TB2: Break					
	14:15-15:45		T4.1: Network Design (ON 2) Chair: Chair: Vinod Vokkarane (University of Massachusetts Dartmouth, USA)	T4.2: Cross-Layer Design (CLDO 1) Distinguished Speaker: Ness Shroff Chair: Qing-An Zeng (University of Cincinnati, USA)	T4.4: Quality of Service (QoS 2) Chair: Ming Li (California State University, USA)	T4.3: Medium access control (PAWN 2) Chair: Lavy Libman (NICTA, Australia)	
	15:45-16:00	TB3: Break					
	16:00-17:30		T5.1: Internet, Video and Voice Distinguished Speaker: Chang Wen Chen; Hiroshi Inamura Chair: Nasir Ghani (University of New Mexico, USA)	T5.2: Data Security (NS 1) Chair: K. K. Ramakrishnan (AT&T Labs. Research, USA)	T5.3: Network Planning (ON 3/MNET) Chair: M Robert Ito (University of British Columbia, Canada)	T5.4: Energy efficiency and Location (PAWN 3) Chair: Geoff Merrett (University of Southampton, United Kingdom)	
	18:30-21:00	BQ: Banquet and Awards Ceremony (Harbor IV) Chair: Haohong Wang (Marvell Semiconductors, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)					

## Tuesday, Aug 5

### 7:00 AM - 8:00 AM

#### TBF: Breakfast

Harbor Foyer

### 8:00 AM - 9:15 AM

#### T1: Keynote II: Telecom Networks: The Road Ahead

Dr. Biswanath Mukherjee (IEEE Fellow), Child Family Chair Professor, University of California, Davis  
Harbor I                      Chair: Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

### 9:15 AM - 9:45 AM

#### TB1: Break (30 min)

Harbor Foyer

**9:45 AM - 11:45 AM**

**T2.1: Optical Grooming and OBS (ON 1)**

Harbor II            George Rouskas (North Carolina State University, USA)  
A Comparative Study of Path Level Traffic Grooming Strategies for WDM Optical Networks with  
Dynamic Traffic (Invited Paper)  
                            Srivatsan Balasubramanian (Iowa State University, USA); Arun Somani (Iowa State University,  
                            USA)  
Impairment-Aware Multicast Algorithms Over Optical Burst-Switched Networks  
                            Balagangadhar Bathula (University of Massachusetts Dartmouth, USA); Rajesh Bikram  
                            (University of Massachusetts Dartmouth, USA); Vinod Vokkarane (University of Massachusetts  
                            Dartmouth, USA); Srinivas Talabattula (Indian Institute of Science, India)  
TCP Over Optical Burst Switching (OBS): To Split or Not To Split?  
                            Deepak Padmanabhan (University of Massachusetts Dartmouth, USA); Rajesh Bikram (University  
                            of Massachusetts Dartmouth, USA); Vinod Vokkarane (University of Massachusetts Dartmouth,  
                            USA)  
Invited Talk: OSMOSIS: the IBM and Corning optical switch demonstrator (Mr. Ronald Luijten)

**T2.2: Internet Peer-to-Peer Technologies (ISA 1)**

Harbor III            Duc Tran (UMass Boston, USA)  
Invited Talk: Cooperative use of P2P and Multicast for Video-on-Demand (Dr. K.K. Ramakrishnan)  
Sources and Monitors: A Trust Model for Peer-to-Peer Networks  
                            Yan Li (The University of Texas at Austin, USA); Mohamed Gouda (University of Texas at  
                            Austin, USA)  
Floodgate: A Micropayment Incentivized P2P Content Delivery Network  
                            Srijith K. Nair (Vrije Universiteit, The Netherlands); Erik Zentveld (Vrije Universiteit, The  
                            Netherlands); Bruno Crispo (Universita di Trento, Italy); Andrew Tanenbaum (Vrije Universiteit,  
                            The Netherlands)  
Optimization of Semantic Routing Table  
                            Amitava Biswas (Texas A&M University, USA); Suneil Mohan (Texas A&M University, USA);  
                            Rabi Mahapatra (Texas A&M University, USA)

**T2.3: Video, Coding and Signal Processing (SPC)**

Island I/II            Weisi Lin (Nanyang Technological University, Singapore)  
Adaptive Critic Design for Energy Minimization of Portable Video Communication Devices  
                            Zhihai He (University of Missouri-Columbia, USA); Zhao Sun (NIA, USA)  
Motion Artifact Reduction in Photoplethysmography Using Magnitude-Based Frequency Domain  
Independent Component Analysis  
                            Rajet Krishnan (Kansas State University, USA); Bala Natarajan (Kansas State University, USA);  
                            Steve Warren (Kansas State University, USA)  
On Phase Precoding and Feedback Design for ML-Detected V-BLAST Systems  
                            Alice Peng (Queen's University, Canada); Shahram Yousefi (Queen's University, Canada); Il-Min  
                            Kim (Queen's University, Canada)

**T2.4: Routing and topology control (PAWN 1/WSN)**

Island III/IV        Arunita Jaekel (University of Windsor, Canada)  
ABC: A Simple Geographic Forwarding Scheme Capable of Bypassing Routing Holes in Sensor Networks

Taekkyeun Lee (State University of New York at Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA); Murat Demirbas (SUNY Buffalo, USA); Jinhui Xu (State University of New York at Buffalo, USA)  
A Position-based Deployment and Routing Approach for Directional Wireless Mesh Networks  
Weisheng Si (University of Sydney, Australia); Selvakenedy Selvadurai (University of Sydney, Australia)  
Efficient Fault Tolerant Topology Control for Three-Dimensional Wireless Networks  
Yu Wang (University of North Carolina at Charlotte, USA); Lijuan Cao (UNC Charlotte, USA); Teresa Dahlberg (University of North Carolina - Charlotte, USA)  
REAL Routing: REputation based Approach on 2.5-Layer Routing for reliable packet delivery in wireless multi-hop networks  
Sungwoo Tak (Pusan National University, Korea)  
Constant Approximation Algorithm for MST in Resource Constrained Wireless Sensor Networks  
Foad Dabiri (UCLA, USA); Alireza Vahdatpour (UCLA, USA); Hyduke Noshadi (UCLA, USA); Majid Sarrafzadeh (UCLA, USA)

## **11:45 AM - 1:00 PM**

### **TL: Lunch (on your own)**

Harbor Foyer

## **1:00 PM - 2:00 PM**

### **T3: Panel 2: Sensor Networks: Future Challenges and Applications**

#### **Moderator:**

Prof. Tarek Abdelzaher, University of Illinois at Urbana Champaign, USA

#### **Panelists:**

Prof. Jack Stankovic, University of Virginia, USA (IEEE Fellow, ACM Fellow)

Prof. Mani Srivastava, University of California, Los Angeles, USA (IEEE Fellow)

Prof. Xenofon D. Koutsoukos, Vanderbilt University, USA

Prof. P.R. Kumar, University of Illinois at Urbana Champaign, USA (NAE member, IEEE Fellow)

Prof. Taieb Znati, NSF, USA

Harbor I

## **2:00 PM - 2:15 PM**

### **TB2: Break (15 min)**

Harbor Foyer

## **2:15 PM - 3:45 PM**

### **T4.1: Network Design (ON 2)**

Harbor II

Vinod Vokkarane (University of Massachusetts Dartmouth, USA)

Managing Traffic Growth in Telecom Mesh Networks (Invited Paper)

Rajesh Roy (University of California, Davis, USA); Biswanath Mukherjee (Dept. of Computer Science - Univ. of California Davis, USA)

Survivable Logical Topology Design for IP-over-WDM Networks: A Hybrid Approach for Minimum Protection Capacity

Muhammad Javed (University of Oklahoma, USA); Krishnaiyan Thulasiraman (Professor and Hitachi Chair, USA); Guoliang Xue (Arizona State University, USA)

Dynamic Hybrid Topology Design for Multicast in Constrained WDM Networks

Mina Youssef (Kansas State University, USA); Baek-Young Choi (University of Missouri, Kansas City, USA); Caterina Scoglio (Kansas State University, USA); E. k. Park (UMKC, USA)

Gateway Placement in Wireless Mesh Networks Using Free Space Optical Links

Mohammed Smadi (McMaster University, Canada); Sasthi Ghosh (McMaster University, Canada); Ahmed Farid (McMaster University, Canada); Terence D. Todd (McMaster University, Canada); Steve Hranilovic (McMaster University, Canada)

## **T4.2: Cross-Layer Design (CLDO 1)**

Harbor III Qing-An Zeng (University of Cincinnati, USA)

Improving the Bit-per-Joule Performance of IEEE 802.11 Based Wireless Networks through High Power Transmissions

Rima Khalaf (University of California, Los Angeles, USA); Izhak Rubin (University of California at Los Angeles, USA)

NePTune: Optimizing Sensor Networks

Sally Wahba (Clemson University, USA); Sravanthi Dandamudi (Clemson University, USA); Andrew Dalton (Clemson University, USA); Jason Hallstrom (Clemson University, USA)

Invited Talk: Cross-Layer Design for Wireless Networks (Prof. Ness Shroff)

## **T4.3: Quality of Service (QoS 2)**

Island I/II Ming Li (California State University, USA)

High definition MPEG-4 AVC Traffic Analysis and Real-Time Bandwidth

Laetitia Lanfranchi (Georgia Institute of Technology, France); Benny Bing (Georgia Institute of Technology, USA)

Best-Effort Quality-of-Service

Bradley Smith (University of California at Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

Work-Conserving Fair-Aggregation with Rate-Independent Delay

Jorge Cobb (University of Texas at Dallas, USA)

PASS: Power-Aware Scheduling of Mixed Applications with Deadline Constraints on Clusters

Cong Liu (Auburn University, USA); Xiao Qin (Auburn University, USA); Shuang Li (Auburn University, USA)

## **T4.4: Medium access control (PAWN 2)**

Island III/IV Lavy Libman (NICTA, Australia)

Calculating the Frame Collision Probability under IEEE 802.11b DCF

Jun Liu (University of North Dakota, USA)

Channel Access Using Opportunistic Reservations and Virtual MIMO

Xin Wang (University of California, Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA); Hamid Sadjadpour (University of California, Santa Cruz, USA)

The PIMA protocol: Parallel Interaction in Wireless Ad Hoc Networks via OFDMA

Marzieh Veyseh (University of California Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA)  
Flow-based Channel Assignment in Channel Constrained Wireless Mesh Networks  
Weihuang Fu (University of Cincinnati, USA); Bin Xie (University of Cincinnati, USA);  
Xiaoyuan Wang (University of Cincinnati, USA); Dharma Agrawal (University of Cincinnati, USA)

## **3:45 PM - 4:00 PM**

### **TB3: Break (15 min)**

Harbor Foyer

## **4:00 PM - 5:30 PM**

### **T5.1: Internet, Video and Voice**

Harbor II            Nasir Ghani (University of New Mexico, USA)  
Invited Talk: Technical Challenges in Video Coding for Future Digital Entertainment (Prof. Chang Wen Chen)  
Invited Talk: Insights into Handset Technologies for Broadband Cellular Systems (Mr. Hiroshi Inamura)

### **T5.2: Data Security (NS 1)**

Harbor III            K. K. Ramakrishnan (AT&T Labs. Research, USA)  
Increasing DHT Data Security by Scattering Data (Invited Paper)  
Bryan Mills (University of Pittsburgh, USA); Taieb Znati (University of Pittsburgh, USA)  
Security-Aware Cache Management for Cluster Storage Systems  
Mais Nijim (The University of Southern Mississippi, USA)  
Security Extensions for Space-Link Communication  
Daniel Fischer (University of Luxembourg / European Space Agency, Luxembourg); Mario Merri (European Space Agency, Germany); Thomas Engel (University of Luxembourg, Luxembourg)  
A new proposal for QKD relaying models  
Quoc-Cuong Le (Institut TELECOM, TELECOM ParisTech, France); Patrick Bellot (Institut TELECOM, TELECOM ParisTech, France)

### **T5.3: Network Planning (ON 3/MNET)**

Island I/II            M Robert Ito (University of British Columbia, Canada)  
Revisiting p-cycles / FIPP p-cycles vs. Shared Link / Path Protection  
Brigitte Jaumard (Concordia University, Canada); Caroline Rocha (Université de Montréal, Canada)  
Wavebanding in Bi-directional WDM Ring Networks with Limited Reconfigurability  
Majid Alnaimi (George Washington University, USA); Suresh Subramaniam (The George Washington University, USA)  
A Study of Unreserved Backup Paths for Reliable QoS under Single Link Failure  
Ing-Wher Chen (University of British Columbia, Canada); M Robert Ito (University of British Columbia, Canada)  
A Novel Approach in Modeling an Optical Network Based on Queuing with Customer Impatience

Ali Rajabi (Department of ECE, University of Tehran, Iran); Aresh Dadlani (University of Tehran, Iran); Ahmad Khonsari (University of Tehran, Iran); Mohammadreza Aghajani (SHarif University of Technology, Iran)

#### **T5.4: Energy efficiency and Location (PAWN 3)**

Island III/IV      Geoff Merrett (University of Southampton, United Kingdom)

Energy Aware Provisioning in Solar Powered WLAN Mesh Networks

Ghada Badawy (McMaster University, Canada); Amir Sayegh (McMaster University, Canada);

Terence D. Todd (McMaster University, Canada)

Energy Minimization through Network Coding for Lifetime Constrained Wireless Networks

Nishanth Gaddam (Iowa State University, USA); Sudha Anil Gathala (Iowa State University,

USA); David Lastine (Iowa State University, USA); Arun Somani (Iowa State University, USA)

Maximum Network Lifetime in Interference-Aware WiMax/802.16 Mesh Centralized Scheduling

Jad El-Najjar (Concordia University, Canada); Brigitte Jaumard (Concordia University, Canada);

Chadi Assi (Concordia University, Canada)

Fingerprint-based Location Estimation with Virtual Access Points

A. K. M. Mahtab Hossain (National University of Singapore, Singapore); Nguyen Hien (National

University of Singapore, Singapore); Wee-Seng Soh (National University of Singapore,

Singapore)

## **6:30 PM - 9:00 PM**

### **BQ: Banquet and Awards Ceremony**

Harbor IV

Chairs: Haohong Wang (Marvell Semiconductors, USA) and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

Date	Time	Harbor I	Harbor II	Harbor III	Island I/II	Island III/IV	Island V/VI
Wed (August 6)	7:00-8:00	WBF: Breakfast					
	8:00 - 9:15	W1: Keynote III: Trends, Grand Challenges, and Opportunities in Networking Technology and Systems (Harbor I) Speaker: Taieb Znati (NSF Division Director), University of Pittsburgh Chair: Suresh Subramaniam, The George Washington University					
	9:15-9:45	WB1: Break					
	9:45-11:45		W2.1: NSF Funding Forum Speakers: Jie Wu, NSF and Florida Atlantic University; Taieb Znati, NSF and University of Pittsburgh	W2.2: WiMAX Report on Multihop Cellular Networks: Technology and Standardization Speakers: Mike Hart, UK Broadband; Zhifeng Tao, Mitsubishi Electric Research Lab; Yuefeng Zhou, NEC Europe	W2.3: Cognitive Radio and Info Theory (CRN/CIT) Chair: Mort Naraghi-Pour (Louisiana State University, USA)	W2.4: Wireless Testbeds and Protocols (WPAT) Chair: Irfan Awan, University of Bradford	
	11:45-13:00	WL: Lunch (on your own)					
	13:00-14:00	W3: Panel 3: Peer Assisted Content Delivery: Challenges and Opportunities (Harbor I) Moderator: Dr. Jin Li, Microsoft Research					
	14:00-14:15	WB2: Break					
	14:15-15:45		W4.1: Cross-Layer Design (CLDO 2) Distinguished Speaker: Kia Makki Chair: Kuang-Ching Wang (Clemson University, USA)	W4.2: Security and Modeling (PCMN 2) Distinguished Speaker: Jie Wu Chair: Raja Jurdak (University College Dublin, Ireland)	W4.3: ANC Workshop 1: Routing, Multicast and Performance Chair: Vladimir Stankovic (University of Strathclyde, United Kingdom)	W4.4: ANC Workshop 2: Medium Access, UWB and P2P Chair: Fan Zhai (Texas Instruments, USA)	
	15:45-16:00	WB3: Break					
	16:00-17:30		W5.1: Internet Security (NS 2) Chair: Niki Pissinou (Florida International University, USA)	W5.2: Wireless Networking (NAPE 3/PCMN) Chair: Jie Wu (Florida Atlantic University and National Science Foundation, USA)	W5.4: ICCCN 2009 Planning Meeting Chair: Byrav Ramamurthy (University of Nebraska-Lincoln, USA)	W5.3: ANC Workshop 3: Wireless and Sensor Networks Chair: Samuel Cheng (University of Oklahoma, USA)	

## Wednesday, Aug 6

### 7:00 AM - 8:00 AM

#### WBF: Breakfast

Harbor Foyer

### 8:00 AM - 9:15 AM

#### W1: Keynote III: Trends, Grand Challenges, and Opportunities in Networking Technology and Systems

Dr. Taieb Znati, Division Director, NSF and Professor, University of Pittsburgh, USA  
Harbor I      Chair: Suresh Subramaniam (The George Washington University, USA)

### 9:15 AM - 9:45 AM

#### WB1: Break (30 min)

Harbor Foyer

## 9:45 AM - 11:45 AM

### W2.1: NSF Funding Forum

Speakers: Dr. Jie Wu, NSF and Florida Atlantic University; Dr. Taieb Znati, NSF and University of Pittsburgh  
Harbor II

### W2.2: WiMAX Report on Multihop Cellular Networks: Technology and Standardization

Speakers: Dr. Mike Hart, UK Broadband, UK, Dr. Zhifeng Tao, Mitsubishi Electric Research Lab, USA and Dr. Yuefeng Zhou, NEC Europe, UK  
Harbor III

### W2.3: Cognitive Radio and Info Theory (CRN/CIT)

Island I/II          Mort Naraghi-Pour (Louisiana State University, USA)  
Cognitive Radio based Wireless Sensor Networks  
    Dave Cavalcanti (Philips Research North America, USA); Sushanta Das (Philips Research, USA);  
    Jianfeng Wang (Philips Research, USA); Kiran Challapali (Philips Research, USA)  
Autonomous Decision Making Process for the Dynamic Reconfiguration of Cognitive Radios  
    Nicolas Colson (France Telecom R&D, France); Apostolos Kountouris (France Telecom, France);  
    Armelle Wautier (Supélec, France); Lionel Husson (Ecole Supérieure d'Electricité (SUPELEC),  
    France)  
Autocorrelation-Based Spectrum Sensing Algorithms for Cognitive Radios  
    Takeshi Ikuma (Louisiana State University, USA); Mort Naraghi-Pour (Louisiana State  
    University, USA)  
Bargaining and Multi-user Detection in MIMO Interference Networks  
    Matthew Nokleby (Brigham Young University, USA); Lee Swindlehurst (University of California  
    at Irvine, USA)

### W2.4: Wireless Testbeds and Protocols (WPAT)

Island III/IV      Irfan Awan (University of Bradford, United Kingdom)  
A Testbed for Visualizing SensorNet Behavior  
    Andrew Dalton (Clemson University, USA); Sravanthi Dandamudi (Clemson University, USA);  
    Jason Hallstrom (Clemson University, USA); Sally Wahba (Clemson University, USA)  
A Light Weight Method for Maintaining Clock Synchronization for Networked Systems  
    David Salyers (University of Notre Dame, USA); Aaron Striegel (University of Notre Dame,  
    USA); Christian Poellabauer (University of Notre Dame, USA)  
Multi-Path Intelligent Virtual Mobile Nodes for Ad Hoc Networks  
    Binbin Qian (Florida Atlantic University, USA); Jie Wu (Florida Atlantic University, USA)  
ACAR: Adaptive Connectivity Aware Routing Protocol for Vehicular Ad Hoc Networks  
    Qing Yang (Auburn University, USA); Alvin Lim (Auburn University, USA); Shuang Li (Auburn  
    University, USA); Jian Fang (Auburn University, USA); Prathima Agrawal (Auburn University,  
    USA)  
DESALa: An Implementation of the Dynamic Embedded Sensor-Actuator Language  
    Andrew Dalton (Clemson University, USA); William McCartney (Cleveland State University,  
    USA); Kajari GhoshDastidar (University of Iowa, USA); Jason Hallstrom (Clemson University,  
    USA); Nigamanth Sridhar (Cleveland State University, USA); Ted Herman (University of Iowa,



USA); William Leal (The Ohio State University, USA); Anish Arora (The Ohio State University, USA); Mohamed Gouda (University of Texas at Austin, USA)

## **11:45 AM - 1:00 PM**

### **WL: Lunch (on your own)**

Harbor Foyer

## **1:00 PM - 2:00 PM**

### **W3: Panel 3: Peer Assisted Content Delivery: Challenges and Opportunities**

**Moderator:**

Dr. Jin Li, Microsoft Research, USA

**Panelists:**

Mr. Laird Popkin, Pando Network, USA (CTO)

Mr. Harvey Benedict, Kontiki, USA (VP of Corporate Development and Strategy)

Prof. Thinh Nguyen, Oregon State University, USA

Harbor I

## **2:00 PM - 2:15 PM**

### **WB2: Break (15 min)**

Harbor Foyer

## **2:15 PM - 3:45 PM**

### **W4.1: Cross-Layer Design (CLDO 2)**

Harbor II      Kuang-Ching Wang (Clemson University, USA)

p-Percent Coverage Schedule in Wireless Sensor Networks

Shan Gao (Georgia State University, USA); Xiaoming Wang (Shaanxi Normal University, P.R. China); Yingshu Li (Georgia State University, USA)

Collaborative Routing, Scheduling and Frequency Assignment for Wireless Ad Hoc Networks using Spectrum-Agile Radios

Xin Wang (University of California, Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

Invited Talk: Multicast Routing in Communication Networks (Prof. Kia Makki)

### **W4.2: Security and Modeling (PCMN 2)**

Harbor III      Raja Jurdak (University College Dublin, Ireland)

Invited Talk: Mobility in Ad Hoc Wireless Networks: Friend or Foe (Prof. Jie Wu)

PAP: A Privacy and Authentication Protocol for Passive RFID Tags

Alex Liu (Michigan State University, USA); LeRoy Bailey (Michigan State University, USA)  
Anonymity-Preserving Location Data Publishing  
Lingappa Girish (Iowa State University, USA); Ying Cai (Iowa State University, USA)

### **W4.3: ANC Workshop 1: Routing, Multicast and Performance**

Island I/II Vladimir Stankovic (University of Strathclyde, United Kingdom)  
WDM Multicast Tree Construction Algorithms for Minimizing Blocking Probability under a Delay Constraint  
Toyofumi Takenaka (Nihon University, College of Engineering, Japan)  
Multidimensional Routing  
Stephen Dabideen (University of California, Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA)  
Traffic Engineering Framework for Multimedia Traffic  
Priscila Solís Barreto (University of Brasilia, Brazil); Paulo Carvalho (Universidade de Brasilia, Brazil)  
Proactive Rearrangement in Delay Constrained Multicast with Dynamic Membership Support  
Keen-Mun Yong (Nanyang Technological University, Singapore); Gee-Swee Poo (Nanyang Technological University, Singapore); Tee Hiang Cheng (Nanyang Technological University, Singapore)  
Instrumentation and Analysis of MPI Queue Times on the SeaStar High-Performance Network  
Ron Brightwell (Sandia National Laboratories, USA); Kevin Pedretti (Sandia National Laboratories, USA); Kurt Ferreira (University of New Mexico, USA)

### **W4.4: ANC Workshop 2: Medium Access, UWB and P2P**

Island III/IV Fan Zhai (Texas Instruments, USA)  
Cross-layer Optimization in Multi-hop TDMA Networks using DCA  
Hoai-An Le Thi (Laboratory of Theoretical and Applied Computer Science, France); Thuan Nguyen (Laboratory of Theoretical and Applied Computer Science, France); Khoa Phan (University of Alberta, Canada); Dinh Tao Pham (Laboratory of Modelling, Optimization and Operations Research, France)  
A New Collision Resolution Mechanism for IEEE 802.11 WLAN  
Qifei Zhang (School of Computing, Hubei University of Economics, P.R. China); Baolin Sun (School of Computing, Hubei University of Economics, P.R. China); Chao Gui (School of Computing, Hubei University of Economics, P.R. China); Changjun Zeng (School of Computing, Hubei University of Economics, P.R. China)  
Performance Analysis of WiMedia UWB Systems for Medical Applications With Human Blockages  
Yue Shang (University of Delaware, USA); Dong Wang (Philips Research North America, USA); Dagnachew Birru (Philips Research North America, USA)  
Performance Study of Unstructured P2P Overlay Streaming Systems  
Purvi Shah (University of Houston, USA); Jehan-Francois Paris (University of Houston, USA)

## **3:45 PM - 4:00 PM**

### **WB3: Break (15 min)**

Harbor Foyer

## **4:00 PM - 5:30 PM**

## **W5.1: Internet Security (NS 2)**

- Harbor II            Niki Pissinou (Florida International University, USA)  
Rule Hashing for Efficient Packet Classification in Network Intrusion Detection  
Atsushi Yoshioka (Washington State University, USA); Shariful Shaikot (Washington State University, USA); Min Kim (Washington State University, USA)  
Policy Distribution Methods for Function Parallel Firewalls  
Errin Fulp (Wake Forest University, USA); Michael Horvath (Wake Forest University, USA); Patrick Wheeler (University of California at Davis, USA)  
A Preliminary Look at the Privacy of SSH Tunnels  
Maurizio Dusi (University of Brescia, Italy); Francesco Gringoli (University of Brescia, Italy); Luca Salgarelli (University of Brescia, Italy)  
Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks  
Peter Djalaliev (University of Pittsburgh, USA); Muhammad Jamshed (University of Pittsburgh, USA); Nicholas Farnan (University of Pittsburgh, USA); Jose' Brustoloni (University of Pittsburgh, USA)

## **W5.2: Wireless Networking (NAPE 3/PCMN)**

- Harbor III            Jie Wu (Florida Atlantic University and National Science Foundation, USA)  
Multi-hop RFID Wake-up Radio: Design, Evaluation and Energy Tradeoffs  
Raja Jurdak (University College Dublin, Ireland); Antonio Ruzzelli (University College Dublin, Ireland); Gregory O'Hare (University College Dublin, Ireland)  
Proactive or Reactive Routing: A Unified Analytical Framework in MANETs  
Xianren Wu (University of California at Santa Cruz, USA); Hui Xu (University of California, Santa Cruz, USA); Hamid Sadjadpour (University of California, Santa Cruz, USA); J. J. (Joaquin) Garcia-Luna-Aceves (University of California at Santa Cruz, USA)  
Localized Access Point Association in Wireless LANs with Bounded Approximation Ratio  
Mingming Lu (Florida Atlantic University, USA); Jie Wu (Florida Atlantic University and National Science Foundation, USA)  
TRACK: A Novel Connected Dominating Set based Sink Mobility Model for WSNs  
Avinash Srinivasan (Florida Atlantic University, USA); Jie Wu (Florida Atlantic University and National Science Foundation, USA)

## **W5.3: ICCCN 2009 Planning Meeting**

- Island I/II            Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

## **W5.4: ANC Workshop 3: Wireless and Sensor Networks**

- Island III/IV        Samuel Cheng (University of Oklahoma, USA)  
Noise-Aware Energy-Efficient Sensor Binding  
Nazif Tas (University of Maryland, USA); Chellury Sastry (Siemens Corporate Research, USA); Vania Mesrob (Siemens Corporate Research, USA)  
A Dynamic Approach for setting parameters of the Coordinated Distributed Scheduler of the IEEE 802.16  
Valeria Loscri (University of Calabria, Italy)  
A trust model robust to slander attacks in ad hoc networks  
Pedro Velloso (Paris VI, France); Rafael Laufer (University of California at Los Angeles, USA); Otto Duarte (Universidade Federal do Rio de Janeiro, Brazil); Guy Pujolle (University of Paris 6, France)  
A Structured Hardware/Software Architecture for Embedded Sensor Nodes  
Geoff Merrett (University of Southampton, United Kingdom); Alex Weddell (University of Southampton, United Kingdom); Nick Harris (University of Southampton, United Kingdom);

Bashir Al-Hashimi (University of Southampton, United Kingdom); Neil White (University of Southampton, United Kingdom)

**Thursday, Aug 7**

**8:00 AM - 9:15 AM**

**R1: Keynote IV: GENI - Global Environment for Network Innovations**

Dr. Chip Elliot (IEEE Fellow, AAAS Fellow); Chief Engineer, BBN Technologies and GENI Project Director

Harbor I              Chair: Xiaolin Li (Oklahoma State University, USA)