

IEEE SARNOFF SYMPOSIUM 2015

Conference Agenda

ORGANIZING COMMITTEE APPROVED
8/19/2015

Conference Agenda

Sunday, September 20, 2015			
8 am to 5:00 pm	Registration		
9:30 – 12:30 pm	Tutorial 1: Spectrum for 5G Cellular Systems Reza Arefi, Director of Spectrum Strategy, Intel Corporation	Tutorial 2a: Distributed Computing on GENI: Hadoop in a Slice (Network virtualization and cloud) Paul Ruth, Anirban Mandal, Renaissance Computing Institute, UNC Chapel Hill	Tutorial 3: TBA
<i>Lunch Break (1.5 hours)</i>			
2:00 – 5:00 pm	Tutorial 4: Integrating Packet and Circuit into Optical Switching Domain Hiroaki Harai, National Institute of Information and Communications Technology, Tokyo, Japan	Tutorial 5: Juniper Networks OpenContrail "Hands-on" Technical Overview (SDN - HANDS-ON) Mike Langdon, Juniper	Tutorial 2b: Distributed Computing on GENI: Hadoop in a Slice (HANDS-ON) Paul Ruth, Anirban Mandal, Renaissance Computing Institute, UNC Chapel Hill
Monday, September 21, 2015			
8:00 am to 5:00 pm	Registration		
9:00 am to 9:15 am	Opening Ceremony & Welcome Message		
9:15 am to 10:00 am	Keynote 1: Marcus Weldon, President, Alcatel-Lucent Bell Labs		
<i>Coffee Break (10 minutes)</i>			
10: 10 am to 11:10 pm	Network Performance I	Network Design I	Wireless Physical Layer I
Technical Papers	TP1: Low-Complexity Collision Detection Scheme Using Pseudo-	TP4: Predicting Home Network Problems Using Diverse Data	TP7: Low complexity timing synchronization and channel estimation

	<p>Coded ON-OFF Pilot Transmission Per-Packet for Wireless Sensor Networks</p> <p>TP2: MDSA: Multi-Dimensional Slotted Aloha MAC Protocol for Low-Collision High-Throughput Wireless Communication Systems</p> <p>TP3: Virtual Radio Access Network Opportunities and Challenges</p>	<p>TP5: Introducing Contactless Assessment of Heart Rate Variability Using High Speed Video Camera</p> <p>TP6: Reduced-complexity Sphere Decoding Algorithm Based on Adaptive Radius in Each Dimension</p>	<p>for DVB-T2 over long echo channels</p> <p>TP8: Forecasting of Throughput across Heterogeneous Boundaries in Wireless Communications - Algorithm and Performance</p> <p>TP9: Long-term Application-Level Wireless Link Quality Prediction</p>
11:15 am to 11:45 am	Invited Talk 1: Biswanath Mukherjee, University of California-Davis		
11:45 am to 12:15 pm	Invited Talk 2: Sudhir Dixit, Vice Chair, World Wide Research Forum		
12:15 pm to 1:15 pm	Lunch Talk – Bill Bayne, CEO Transit Wireless		
1:15 pm to 2:00 pm	Keynote 2: Sanjay Macwan, SVP and CTO of NBC Universal Media Labs		
<i>Coffee Break (10 minutes)</i>			
2:10 pm to 3:10 pm	4G/5G Communications	Wireless Sensor Networks I	Optical Network Communication
Technical Papers	<p>TP10: Optimized Metric Clipping Decoder Design for Impulsive Noise Channels at High Signal-to-Noise Ratios</p> <p>TP11: Limiting the Power of 4G Dynamic Green Cellular Networks: Impact on Capacity and Quality of Service</p> <p>TP12: Quality of Service Management in 5G Broadband Converged Networks</p>	<p>TP13: An Experimental Study of Small World Network Model for Wireless Networks</p> <p>TP14: Real-time Evacuating Routing during Earthquake using a Sensor Network in an Indoor Environment</p> <p>TP15: Modeling Realism in Wireless Simulations</p>	<p>TP16: High-performance quantum well amplifiers for the WDM system</p> <p>TP17: Understanding the Impact of Circular Wavelength Conversion on the Performance of Synchronous WDM Optical Packet Switches</p> <p>TP18: Analysis of Internal ROADM Protection</p>
3:15 pm to 3:45 pm	Invited Talk 3: Venky Krishnaswamy, President, Avaya Labs		

3:45 pm to 4:15 pm	Invited Talk 4: Martin Körling, President, Ericsson Labs		
4:15 pm to 4:45 pm	Invited Talk 5: Gagan Puranik, Director SDN Architecture, Verizon		
4:45 pm to 5:15 pm	Invited Talk 6: Rita Marty, Executive Director, AT&T CSO		
5:15 pm to 6:30 pm	Panel Session 1 - 5G: Challenges and Opportunities Sudhir Dixit - HP (Moderator) Robert Fish - VP IEEE Communication Society Standards Ivan Seskar - WINLAB, Rutgers University Seshadri Mohan - University of Arkansas Dr. Xiao Feng Qi - Huawei		
6:30 pm – 9:00 pm	Reception/Dinner Banquet		
Tuesday, September 22, 2015			
8:00 am to 5:00 pm	Registration		
9:15 am to 10:00 am	Keynote 3: Steve Wright, ETSI NFV ISG Chairman (AT&T Services)		
<i>Coffee Break (10 minutes)</i>			
10:10 am to 11:10 am	Network Performance II	Network Design II	Wireless Physical Layer II
Technical Papers	TP19: RAM-Based Micro-Architecture for a High-Throughput Interconnection Network TP20: On Guaranteeing the Quality of Service of Conformant Traffic in Excess Bandwidth Allocation for Shared Access Networks TP21: NetANPI: a network selection mechanism for LTE traffic offloading based on the Analytic Network Process	TP22: A 2.48Gb/s FPGA-based QC-LDPC Decoder: An Algorithmic Compiler Implementation TP23: Product Rating Prediction Using Centrality Measures in Social Networks TP24: An Automated Topological Analysis of Multiple Routing Configurations	TP25: Secondary User Scheduling in Cognitive Radio Networks with Transmit Beamforming for Interference Mitigation TP26: Radio Resource Dimensioning in a Centralized Ad-Hoc Maritime MIMO LTE Network TP27: Performance Investigation of Non-Hermitian Symmetry OFDM Based MIMO OWC Systems Using Different Imaging Receivers
11:15 am to 11:45 am	Invited Talk 7: Dipankar Raychaudhuri, Director, Winlab		
11:45 am to 12:15 pm	Invited Talk 8: Donald H. Sebastian, President, NJ Innovation Institute		
12:15 pm to 1:15 pm	<i>Lunch & Poster Session</i>		

1:15 pm to 2:00 pm	Keynote 4: Nirwan Ansari, Professor, NJIT		
<i>Coffee Break (10 minutes)</i>			
2:10 pm to 3:10 pm	Cloud/Data Center Network	Security	Wireless Sensor Networks II
Technical Papers	<p>TP28: Power-aware Admission Control and Virtual Machine Allocation for Cloud Applications</p> <p>TP29: Per-Packet Load Balancing in Data Center Networks</p> <p>TP30: Network Virtualization Over SLICE Networks</p>	<p>TP31: Vulnerability Analysis and Verification for LTE Initial Synchronization Mechanism</p> <p>TP32: Experimental and Theoretical Modeling of DNP3 Attacks in Smart Grids</p> <p>TP33: Impact of Software Obfuscation on Susceptibility to Return-Oriented Programming Attacks</p>	<p>TP34: Community Based Sensing: A Test Bed for Environment Air Quality Monitoring using Smartphone paired Sensors</p> <p>TP35: Byzantine Failure Detection in Wireless Ad-Hoc Networks</p> <p>TP36: Experimental Study of Hierarchical Software Defined Radio Controlled Wireless Sensor Network</p>
3:15 pm to 3:45 pm	Invited Talk 9: Narayan Menon, VP at Xcellair		
3:45 pm to 4:15 pm	Invited Talk 10: Yuanqiu Luo, Principal Architect, Huawei		
4:15 pm to 4:45 pm	Invited Talk 11: Anupam Joshi, Professor, University of Maryland, Baltimore County		
4:45 pm to 6:15 pm	<p>Panel Session 2 - SDN and NFV Based Carrier Network Transformation Strategies and Deployment Considerations</p> <p>Subir Das - Applied Communication Sciences (Moderator)</p> <p>Steven Nurenberg - AT&T</p> <p>Martin Körling, President of Ericsson Labs</p> <p>Mark Clougherty - Alcatel Lucent</p> <p>Alec Brusilovs- Interdigital</p> <p>Douglas M. Freimuth - IBM</p>		
6:15 pm – 6:30 pm	Closing Ceremony (Awards, Vote of Thanks)		