

## Detailed Technical Program

Time	Breakout 1	Breakout 2	Main Auditorium
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### Monday, September 18

9:00 – 12:00	Tutorial 1: 5G Tutorial	Tutorial 2: Microwave Photonics	
14:00 – 17:00	Tutorial 3: Block Chains		

### Tuesday, September 19

9:00 – 9:30			Opening Remarks
9:30 – 10:00			Keynote Talk 1
10:00 – 11:30	T1: Internet of Things		Invited Talks 1
11:30 – 12:00			Keynote Talk 2
14:45 – 16:15	T2: Emerging Channels and Networks		Invited Talks 2
16:35 – 18:05	T3: Communication Channels		Invited Talks 3

### Wednesday, September 20

9:00 – 9:30			Keynote Talk 3
9:30 – 11:00			Invited Talks 4
13:45 – 14:15	T4: Network Architecture and Operations		Keynote Talk 4
14:15 – 15:45	T5: Security		Invited Talks 5
15:45 – 16:30			Posters and Demos
16:35 – 17:00			Closing Remarks

## Monday, September 18

### Tutorial 1: 5G Tutorial

**Harish Viswanathan, Director, Nokia Bell Labs**

### Tutorial 2: Microwave Photonics

**Nicholas Madamopoulos, Department of Hellenic Airforce Academy, Dekeleia, Greece**

### Tutorial 2: Block Chains

**Melanie Swan, MS Futures Group**

## Tuesday, September 19

### Keynote Talk 1

**Henning Schulzrinne, Professor, Columbia University**

### Invited Talks 1

**Robin Hillary Kravets, Professor, University of Illinois at Urbana-Champaign**

**Raj Jain, Professor, Washington University in Saint Louis**

**Gnanavelkandan Kathirvel, Director, AT&T**

**Walter Willinger, Chief Scientist, NIKSUN**

### Keynote Talk 2

**Thyagarajan Nandagopal, Program Director, National Science Foundation**

### Invited Talks 2

**Urs Muller, NVIDIA**

**David Snyder, 42TEK Inc**

**Thomas E. Motyka, Executive Director, New Jersey Innovation Institute**

**Vikram Saksena, CTO, NetScout Systems**

## Invited Talks 3

Christopher Ferris, Director, IBM  
Narayan Menon, CTO, XCellAir  
Kyle Ambert, Intel  
Eugene Chai, NEC Laboratories America  
Nagi Mahalingam, InterDigital Labs

## T1: Internet of Things

Handover Performance Prioritization for Public Safety and Emergency Networks  
Cooperative Trajectory Planning in an Intercommunicating Group of UAVs for Convex Plume Wrapping  
ViLDAR: A Novel Speed Estimation System using Visible Light in Vehicles  
A Spectrally Efficient Algorithm for Minimizing Pilot Contamination

## T2: Emerging Channels and Networks

Evaluation of Ultra-Wideband Radio for Industrial Wireless Control  
Adaptive Power Management in Wireless Powered Communication Networks: A User-Centric Approach  
Low-Complexity Memory-Assisted Adaptive-Threshold Detection Scheme for On-OFF-Keying  
Diffusion-Based Molecular Communications  
A First Look at Performance of TV Streaming Sticks

## T3: Communication Channels

On Channel Rate Discovery for Discrete Memoryless Binary Output Channels  
Programmable Low-Complexity Linear Frequency Discriminator for Microwave Photonic Links (Invited)  
Improved GFDM Equalization in Severe Frequency Selective Fading  
A Novel Closed-form of ASEP and Channel Capacity with MRC over  $\eta - \mu/IG$  Distribution

## Tuesday, September 19

### Keynote Talk 3

Radhika Venkatraman, SVP and CIO, Verizon

### Invited Talks 4

Jennifer Rexford, Professor, Princeton University  
Robert Howald, Vice President, Comcast  
Oliver Spatscheck, Director, AT&T  
Peter Mueller, IBM Zurich Research Laboratory

Mark Poletti, Director wireless technologies, CableLabs

## Keynote Talk 4

Narayan B. Mandayam, Chair ECE Dept, Rutgers University

## Invited Talks 5

Walter Willinger, Chief Scientist, NIKSUN

Sundeep Rangan, Director, NYU Wireless

Michael Langdon, Juniper Networks

Miguel A. Dajer, Vice president Wireless, Huawei USA

Seong Hwan Kim, Xilinx

## T4: Network Architecture and Operations

Virtual Machine Migration in heterogeneous Clouds: From OpenStack to VMWare

iRP: Intelligent Rendezvous Point for Multicast Control Plane

Minimum Network Migration Cost and Duration

Toward Realizing Choice-based Co-Optimizable Networking Paradigm

## T5: Security

Collaborative Botnet Detection with Partial Communication Graph Information

Performance Analysis of a Mobile receiver in a Field of Poisson Interferers

Investigating the Impact of Media Coverage on Data Breach Fatigue