



**IEEE Consumer Communications & Networking Conference (CCNC)
Held in conjunction with the International Consumer Electronics Show,
Las Vegas, NV, USA
January 09-12, 2016**

**Call for Papers for the Special Session on
*Wireless Models and Simulations for Consumer Communication and
Networking***

Scope and Motivation:

Wireless systems offer new challenges to network and systems designers. Heterogeneous scenarios, high mobility, energy limitation and bandwidth constraints embody tough optimization problems that should be extensively studied through model analysis and realistic simulations. In this context, it is crucial to bridge the gap between investigations of foundational nature and their application to practical wireless network design.

This track aims to provide an international technical forum to bring together experts from industry and academia from across the world, to discuss and present innovative ideas and the results of ongoing research.

Main Topics of Interest:

The Wireless Models and Simulations for Consumer Communication and Networking Special Session seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Modeling, simulations and performance analysis
- Optimization of network design
- Energy efficiency
- Simulation languages and tools for wireless systems

- Wireless measurement tools and experiences
- Formal methods for analysis of wireless systems
- Correctness, survivability and reliability evaluation
- Mobility modeling and management
- Models and protocols for cognitive radio networks
- Capacity, coverage and connectivity modeling and analysis
- Pervasive computing and emerging models
- Mobile applications, system software and algorithms
- RF channel modeling and analysis
- Design methodologies
- Analytical Models
- Parallel and distributed simulation of wireless systems
- Load balancing of wireless systems
- Mobility modeling and management
- Scalability and manageability of network architectures
- Network and multi-user information theory
- Asymptotic properties (capacity, connectivity, coverage, delay)
- Coexistence of M2M (Machine to Machine) and LTE-A in 5G wireless networks
- Design, implementation and deployment for 5G wireless networks
- Scalability and elasticity for cloud-based 5G wireless networks
- Channel modelling for 5G communications

Track Chairs:

Armir Bujari, *University of Padua, Italy*

Marco Gribaudo, *Politecnico of Milan, Italy*

Andrea Marin, *University of Venice, Italy*