



# IEEE CSCN 2016

2016 IEEE Conference on Standards for Communications and Networking

31 October - 2 November 2016 - Berlin, Germany

# #BERLIN5GWEEK

31 OCT - 04 NOV 2016



IEEE

IEEE COMMUNICATIONS SOCIETY

## Call for Papers

### Submission Deadline

10 July 2016 (FIRM)

### Acceptance Notification

31 August 2016

### Camera Ready

15 September 2016

For more information and submission instructions please visit the conference website:  
<http://cscn2016.ieee-cscn.org/>

**IEEE Conference on Standards for Communication and Networking will be co-located with IEEE 5G Summit Berlin and the 7th FOKUS FUSECO Forum 2016. It is part of the #Berlin5GWeek.**

On behalf of the Organizing Committee, we would like to invite you to submit your work to the 2016 IEEE Conference on Standards for Communications & Networking (CSCN'16) <http://cscn2016.ieee-cscn.org/> to be held in Berlin, Germany's capital Oct. 31 - Nov. 2, 2016.

IEEE CSCN 2016 will be collocated with IEEE 5G Summit in Berlin. Standards play a key role in the success of the communications industry, as enablers of global systems interoperability. IEEE CSCN aims for closing the gap between researchers, scientist and standards experts from academia, industry and different standardization bodies. It will serve as a platform for presenting and discussing standards-related topics in the areas of communications, networking and related disciplines, facilitating standards development as well as cooperation among the key players. IEEE CSCN will deliver high quality Technical as well as visionary papers, which will be reviewed and selected by an international technical program committee (TPC) representing both academia and industry, with a strong standardization background.

In 2016, IEEE CSCN will be divided into 5 tracks designed to cover the diverse space of technologies which together comprise a modern communication system and our connected society. The tracks solicit new and previously unpublished papers that address the emerging relevant architectures and the standardization approaches and strategies that these may take. For each track, paper topics may include (but are not limited to):

### Track on Wireless Communication and Networking

- physical layer and MAC layer design for cellular and other wireless networks
- Dynamic scheduling, power control, interference management and QoS management in 5G wireless networks
- topology, deployment and optimization of wireless networks, device to device (D2D) communication, relays and wireless backhaul, as well as dynamic radio topology based on moving cells
- New control signaling for heterogeneous networks
- mmWave access, backhaul and self-backhauling
- Massive and FD-MIMO communications, hybrid and coordinated beamforming technologies
- Application of SDN, NFV and cloud computing to 5G (and legacy) RAN and core network architectures and implementations, such as network slicing
- C-RAN and flexible fronthaul / backhaul
- Green and energy efficient wireless networks
- Massive MTC (mTC) and long distance communications
- Automotive / V2X and ultra-reliable communications
- LTE / Wi-Fi / Wi-Gig interworking and aggregation
- Spectrum regulation above 2.4 GHz
- R&D and standardization activities towards 5G and IMT-2020
- Wireless optical communications
- Satellite communications

### Track on Internet of Things

- IoT architecture design and optimizations
- IoT security and privacy of IoT devices and services
- System optimization to support Ultra-Low complexity devices
- Standardized semantic data description framework and technologies
- IoT communication procedure enhancements
- Experience and lessons learnt for standards based IoT large scale pilots
- IoT standards platforms interworking
- IoT standards gap analysis
- 5G Networks and IoT
- Software Defined Networks (SDN) and IoT
- Industrial Internet of Things
- Factory of Things
- Edge Computing, Fog Computing and IoT
- IPv6-based IoT Networks
- IoT protocols such as OPv6, 6LoWPAN, RPL, 6TISCH, WoT
- IoT security in the sense of massive IoT deployments, e.g. embedded SIM management



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### Track on Network Softwarization

- SDN and NFV frameworks and architectures
- SDN northbound, southbound and east-west interfaces
- SDN programming languages and data models
- Progress and future challenges in ETSI NFV
- Progress and future challenges in IETF/IRTF related WGs/RGs.
- SDN and NFV in wireless and mobile networks
- Orchestration and Management in SDN and NFV
- Multi-domain considerations in SDN and NFV
- SDN and NFV in multi-tenancy environment
- Experimentation experience in NFV and SDN
- Open Source efforts (e.g., ETSI NFV, OPNFV, OpenStack, OpenMANO)
- QoS/QoE aspects related to SDN and NFV based network services
- Inter/Intra Data Center considerations for hosting SDN and NFV based network services
- Performance, Fault and Lifecycle management of virtualized network functions and network services
- Infrastructure resource/capacity management

### Track on Application and Services

- Standardization efforts for SoA
- Standards for constrained situations
- Communication and Networking standards for low resource situations
- Standardization under W3C
- Standard for future web interoperability
- Web standardization for interactivity
- Standardization of human interactions with web platforms
- IETF standardization for CPS Development of mobile service enabler specifications & Standards
- Interoperability for end-to-end mobile services
- Standard architectures for service enabler
- Open interfaces

### Track on Emerging Computing Infrastructures

- Application QoS/QoE enhancements and location services
- Network function decentralization and application optimization
- Decentralized mobility management and service continuity
- Mobility management across edge-cloud platforms
- Evolving traffic offloading services in edgecomputing platforms
- Flexible Cloud-RAN design and management
- Orchestrating C-RAN and application services across edgecloud platforms
- Joint optimization of applications, services and network functions
- Supporting multi-tenancy in open edge-cloud platforms
- Mobile -Fixed covered control plane and network agnostic access
- Enterprise/business and home gateway virtualization
- Hybrid Access architecture and solutions

## Important Dates:

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## Organization Committee:

### Steering Committee Chair

Prof. Tarik Taleb (Aalto University, Finland)

### General Chair

Prof. Dr. Thomas Magedanz (Fraunhofer FOKUS, Germany)

### TPC Co-Chairs:

Dr. Adlen Ksentini (INRIA/Rennes, France)

Dr. Alex Reznik (InterDigital, USA)