



Denmark Joint Chapter  
Com/ IT/ VT/ AESS



AALBORG UNIVERSITY  
DENMARK

## Program

### Fifth IEEE 5G Summit

Friday July 1, 2016

NOVI Auditorium, Niels Jernes Vej 10, 9220 Aalborg, Denmark

**The Fifth IEEE 5G Summit is the first 5G Summit in Europe after being successfully held in Princeton, Toronto, Silicon Valley and Patna. This summit covers all major aspects concerning 5G with renowned expert speakers from industry and academia to deliberate and discuss upon the further strategy to enable 5G based communications globally.**



**07:45 hrs: Registration**

**08:00 – 08:30 hrs: Session 1: Opening and Introduction**

- Welcome by Børge Lindberg, Aalborg University, Denmark
- Introduction by Ramjee Prasad, CTIF, Denmark
- 5G & Beyond 2050 Books' Opening by Indian Ambassador Rajeev Shahare, Denmark.

**08:30 – 09:50 hrs: Session 2: 5G Network & Security - Session Chair: Marina Ruggieri, CTIF Italy**

- “*Software defined access for 5G*”, Rajarathnam Chandramouli, Stevens Institute of Technology, USA
- “*5G and Next Generation IoT*”, Luis Munoz, University of Cantabria, Spain
- “*5G Security and Challenges*”, Neeli Rashmi Prasad, CTIF, Denmark
- “*China's IMT 2020 Promotion Group*”, Ming Lei, Huawei, China

**09:50 - 10:05 hrs: Coffee Break**

**10:05 – 12:05 hrs: Session 3: 5G Applications & Business Model - Session Chair: Walter Konhäuser, TU Berlin, Germany**

- “*5G and Autonomous Vehicle*”, Mahbubul Alam, Movimento, USA
- “*Multi Business Model Innovations in a world of 5G*”, Peter Lindgren, Aarhus University, Denmark
- “*5G and TV broadcast*”, Lars Kierkegaard, Teracom, Denmark
- “*Spectral Efficiency enhancements utilizing Full Duplex (FD) radio operation*” Uma S. Jha, Raytheon, USA
- “*5G for personalized health and ambient assisted living*” Hermie J Hermens, Roessingh Research & Development, the Netherlands
- “*Protocols and Standardization Activities for 5G*”, Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece

**12:05 – 12:45 hrs: Lunch**

**12:45 – 14:05 hrs: Session 4: 5G from Operators' Perspective - Session Chair: Francois Rancy, ITU Switzerland**

- “*Challenges and Opportunities in Security Virtualization*”, Ashutosh Dutta, AT&T, USA
- “*5G in Europe*”, Christian Kloch, TDC, Denmark
- “*The Morning FOG in the Forest and the Clouds in the Blue Sky*”, Rajarshi Sanyal, Belgacom International Carrier Services (BICS), Belgium
- “*NFV Architecture Opportunities for the 5G Evolution*”, Dilip Krishnaswamy, IBM, USA

**14:05 - 14:20 hrs: Coffee Break**

**14:20 - 15:40 hrs: Session 5: 5G: Radio Access - Session Chair: Ole Mørk Lauridsen,  
Warning systems/IEEE Denmark, Denmark**

- “*5G Radio Access*”, Vinod Kumar, Alcatel Lucent Bell Labs (ex.), France
- “*Optimal Signal Design for Wavelet Radio TOA Locationing with Synchronization Error for 5G Networks*”, Homayoun Nikookar, Netherlands Defence Academy, the Netherlands
- “*802.11ax for 5G*”, Richard van Nee, Qualcomm, the Netherlands
- “*5G Radio Access Technology in mm Wave*”, Maziar Nekovee, Samsung Electronics R&D Institute, UK

**15:40 - 17: 10 hrs: Panel Discussion: 5G Outlook - R&D, Standards, and Deployment  
Moderator: Joern Krause, ETSI, France**

- Hiroshi Harada, Kyoto University, Japan
- Jeevarathinam Ravikumar, Stanley Security Europe, UK
- Ming Lei, Huawei, China
- Sudhir Dixit, Skydoot, USA
- Rasmus Hjorth Nielsen, Movimento, USA
- Anand Raghawa Prasad, NEC, Japan
- Kwang-Cheng Chen, National Taiwan University, Taiwan

**17:10 -17:15 hrs: Conclusions and Final Remarks: Ramjee Prasad, CTIF, Denmark**