

IEEE Technical Committee on Cognitive Networks (TCCN)



*IEEE Globecom 2016, Washington, DC
5th December 2016*

Meeting Agenda Slideset and Supporting Information

Ying-Chang Liang (I2R, Singapore)
IEEE TCCN Chair

Oliver Holland (King's College London, UK)
IEEE TCCN Secretary

Important Documents



- **Selected presentations are online at:**
<http://cn.committees.comsoc.org/meetings/ieee-globecom-2016/>
- **Minutes of the meeting at ICC 2016 (May 2016):**
http://cn.committees.comsoc.org/files/2016/05/ICC16_TCCN_Minutes.pdf

Agenda (and Approval Thereof)

1. **Welcome and Introduction**
2. **Roll Call**
3. **Approval of the Agenda**
4. **Approval of the ICC 2016 (May 2016) TCCN meeting minutes**
5. **Administrative matters**
 - a. **Introduction of new Officers for the 2017-2018 term of office**
 - b. **Report on website (Vijay Rao, Technical University of Delft)**
6. **Reports on Special Interest Groups**
 - a. **Report on Cognitive Network Security SIG (K. P. (Suba) Subbalakshmi, Stevens Institute of Technology)**
 - b. **Report on SIG on Cognitive Radio for 5G (Diep Nguyen, University of Technology Sydney)**
7. **Reports on standard activities**
 - a. **Update on IEEE DySPAN-SC/1900 activities (Oliver Holland, King's College London)**
 - b. **Update on IEEE 802.22 activities (Apurva Mody, BAE Systems)**
8. **Reports on conferences**
 - a. **ICC 2017 Cognitive Radio and Wireless Networks Symposium (Oliver Holland, King's College London)**
 - b. **IEEE DySPAN 2017 (Oliver Holland, King's College London)**
9. **Reports on publications**
 - a. **Transactions on Cognitive Communications and Networks (Michele Zorzi, University of Padova (NOTE: This item will likely be moved to the start of the meeting due to a scheduling issue linked with another meeting occurring in parallel))**
 - b. **TCCN Newsletter (Jianwei Huang, Chinese University of Hong Kong)**
10. **Next TCCN Meeting**
11. **Any other business**

Introduction to TCCN



‘The goal of Technical Committee on Cognitive Networks (TCCN) **is to provide a platform for its members in particular**, and the cognitive networking research, development, policy making and standardization community in general, **to interact and exchange technical ideas to identify major challenges and also drive solutions in the development of cognitive networking technologies**. The technical issues addressed by the committee will include spectrum agile/dynamic spectrum access networks, related issues from PHY to application layers, security issues, policy issues (e.g., spectrum policy reform by U.S., Canada and European Union), implementation technologies (e.g., software radio, middleware), economic considerations and standardization activities.

Cognitive networks are touted to drive the next generations of digital communications. This technical area is attracting a tremendous amount of interest from academia, university, industry and government. New IEEE standardization activities, FCC's spectrum policy reform, federally funded research programs (e.g., DARPA XG and NSF NeTS ProWiN) are some examples of major activities supporting R&D in cognitive networks.’

Current Officers



- **Chair**
 - Ying-Chang Liang, Institute for Infocomm Research (I2R)
- **Vice-Chairs**
 - Jianwei Huang, The Chinese University of Hong Kong (Vice-Chair Asia Pacific)
 - Octavia Dobre, Memorial University (Vice-Chair Americas)
 - R. Venkatesha Prasad, Delft University of Technology (Vice-Chair Europe/Africa)
- **Secretary**
 - Oliver Holland, King's College London

Current Appointed Positions



- **IEEE ComSoc Standards Liaison**
 - Venkatesha Prasad, Delft University of Technology, Netherlands
- **IEEE DySPAN-SC Liaison**
 - Oliver Holland, King's College London, UK
- **IEEE 802.22 Liaison**
 - Apurva Mody, BAE Systems, USA
- **Industry Liaison**
 - Zander Zhongding Lei, Institute for Infocomm Research (I2R), Singapore
- **Web Chair**
 - Vijay Rao, Delft University of Technology, Netherlands

Elected Officers for 2017-2018



- **Chair**
 - Jianwei Huang, Institute for Infocomm Research (I2R)
- **Vice-Chairs**
 - Lingyang Song, Peking University (Vice-Chair Asia Pacific)
 - Walid Saad, Virginia Tech (Vice-Chair Americas)
 - Oliver Holland, King's College London (Vice-Chair Europe/Africa)
- **Secretary**
 - Yue Gao, Queen Mary University of London

Joining TCCN

- **All are welcome – TCCN is open**
- **Mailing List (~1,500 members – December 2016)**
 - To send a message to the list: tccn@comsoc.org
 - To subscribe or manage subscription: <https://comsoc-listserv.ieee.org/cgi-bin/wa?SUBED1=tccn&A=1>
- **Website**
 - <http://cn.committees.comsoc.org>
- **Members**
 - Must attend at least 1 meeting, or
 - Join the email list
- **Active (Voting) Members (see Policies and Procedures for strict definition)**
 - Must attend 2 out of most recent 5 TCCN Meetings, and/or
 - Make a significant contribution to Cognitive Networks
 - Can vote in elections, and stand for an elected Officer position

Special Interest Groups

- **Aim is to promote important activities in TCCN**
- **SIGs formed mainly from the bottom-up**
- **Regular calls for SIGs will be issued on tccn@comsoc.org**
- **Currently active SIGs**
 - Cognitive Security – K.P. (Suba) Subbalakshmi (Stevens), ksubbala@stevens.edu
 - Cognitive Radio for 5G – Markus Mueck (Intel), markus.dominik.mueck@intel.com

Motion 1

“To approve the Agenda (version 1.0) of this meeting (reflected here: <http://cn.committees.comsoc.org/meetings/ieee-globecom-2016/>)”

- **Moved by**
- **Seconded**
- **Disapprovals**
- **Abstentions**
- **Approval**

Motion 2

“To approve the Minutes of the ICC 2016 (May 2016) TCCN Meeting (reflected here: http://cn.committees.comsoc.org/files/2016/05/ICC16_TCCN_Minutes.pdf)”

- **Moved by**
- **Seconded**
- **Disapprovals**
- **Abstentions**
- **Approval**