

IEEE Technical Committee on Cognitive Networks (TCCN)

Meeting at IEEE ICC 2015, London, UK

Held on Wednesday 10th June 2015, 16:00-17:30

Held at the South Gallery 29-30, ExCeL Convention Centre, London, UK

Minutes prepared 16th June 2015, revised 2nd July 2015

Agenda

1. Welcome and Introduction
2. Approval of the Agenda
3. Approval of the Globecom 2014 TCCN Meeting Minutes
4. Reports on Special Interest Groups (Cognitive Radio for 5G, Cognitive Security)
5. Reports on standards activities (IEEE DySPAN-SC/1900, others?)
6. Reports on conferences (DySPAN 2015, ICC 2015, others?)
7. Reports on publications (Transactions on Cognitive Communications and Networks, TCCN Communications, etc.)
8. Next TCCN Meeting
9. Any other business

Meeting Minutes

1. Welcome and Introduction

The meeting convened at 16:10, having delayed slightly to ensure that all attendees were present and that technical facilities (dial-in capabilities) were working sufficiently.

Ying-Chang Liang (I2R, Singapore) introduced himself as Chair, Jianwei Huang (Chinese University of Hong Kong, China) as TCCN Vice-Chair for the Asia-Pacific Region, Octavia Dobre (Memorial University, Canada) as TCCN Vice-Chair for the Americas Region, R. Venkatesha Prasad (Delft University of Technology, Netherlands) as TCCN Vice-Chair for the Europe/Africa Region, and Oliver Holland (King's College London, UK) as Secretary of TCCN.

All the participants then presented themselves and declared their affiliation in addition to other information in some cases. An attendance sheet was used in order to capture attendance of all participants. Furthermore, TCCN provided the opportunity to participants to connect by remote means (GoToMeeting) to participate in the meeting. The participants by remote means were also captured in the attendance list.

The meeting recorder was Oliver Holland (TCCN Secretary).

2. Approval of the Agenda

The agenda was presented to the attendees by the Chair. A motion was invited to approve the Agenda. K.P. (Suba) Subbalakshmi moved, and Jianwei Huang seconded. There were no objections, and no abstentions. The Agenda was unanimously approved by the Committee.

3. Approval of the Globecom 2014 TCCN Meeting Minutes

The Minutes of the TCCN meeting at Globecom 2014 were shown, and Periklis Chatzimisios, who was Secretary at that time, quickly introduced the content. A motion was invited to approve the Minutes. V. R. Venkatesha Prasad moved, and Wei Zhang seconded. There were no objections, and no abstentions. The Minutes were unanimously approved by the Committee.

4. Reports on Special Interest Groups (Cognitive Radio for 5G, Cognitive Security)

The Chair briefly described the concept of Special Interest Groups (SIGs) within TCCN. K.P. (Suba) Subbalakshmi (Stevens Institute of Technology) then presented the activities report for the SIG on Cognitive Security. The slides are available here: http://cms.comsoc.org/eprise/main/SiteGen/TC_CN/Content/Home/Meetings_and_Minutes/Meeting_ICC_2015.html. She also presented a plan for the SIG to start an E-Newsletter on CRN security.

There was no report from the SIG on Cognitive Networks for 5G, as attendance of the meeting by that SIG's leadership was not possible. However, Kei Sakaguchi (Tokyo Tech) presented a partial update upon being asked in the meeting.

Related to the report on Cognitive Security, Yue Gao (Queen Mary University of London) mentioned that he is editing a similar such E-Letter on TVWS.

The Chair asked the participants if they want to propose any new SIGs. None were proposed.

5. Reports on Standards Activities (IEEE DySPAN-SC/1900)

Oliver Holland (King's College London) presented a detailed report on IEEE DySPAN-SC and IEEE 1900 Standards Working Groups. The slides are available here: http://cms.comsoc.org/eprise/main/SiteGen/TC_CN/Content/Home/Meetings_and_Minutes/Meeting_ICC_2015.html.

There was one question on the common interests with the Wireless Innovation Forum. Oliver confirmed that the common interest is currently related to Spectrum Consumption Modeling work in IEEE 1900.5 overlapping with common interests with the Wireless Innovation Forum, and the IEEE 1900.6b work having a strong overlap with Wireless Innovation Forum work and the potential for that to assist 3.5 GHz spectrum sharing which heavily considers sensing.

There was another question on the scope of IEEE DySPAN-SC compared with, e.g., IEEE 802 efforts. Oliver confirmed that the standards DySPAN-SC are generally overarching, being

applicable to a range of systems and being all within the scope of Dynamic Spectrum Access, and he cited some examples. He stated that 802 standards are generally for very specific use cases/scenarios, e.g., local area networking, regional area networking, etc. And of course DySPAN-SC standards are sponsored by the IEEE Communications Society, whereas 802 standards are sponsored by the Computer Society. These are key distinctions.

6. Reports on conferences (DySPAN 2015, ICC 2015)

Oliver Holland (King's College London) provided some quick comment on ICC 2015, then presented a report on DySPAN 2015 on behalf of Sofie Pollin. This included a video presentation highlighting the concept of the "Spectrum Challenge" at DySPAN 2015. The slides are available here:

http://cms.comsoc.org/eprise/main/SiteGen/TC_CN/Content/Home/Meetings_and_Minutes/Meeting_ICC_2015.html.

7. Reports on publications (Transactions on Cognitive Communications and Networks, TCCN Communications)

Michele Zorzi (University of Padova) provided a quick verbal update on the progress of the IEEE Transactions on Cognitive Communications and Networks, including some detail on some of the initial papers provided by invitation to known experts in TCCN (which are, of course, nevertheless reviewed for quality). Jianwei Huang (Chinese University of Hong Kong) presented the TCCN Communications update. The slides are available here:

http://cms.comsoc.org/eprise/main/SiteGen/TC_CN/Content/Home/Meetings_and_Minutes/Meeting_ICC_2015.html. Jianwei Huang also presented the idea of initiation an E-Newsletter for TCCN in general. K.P. (Suba) Subbalakshmi commented that this sounded similar to what she plans for the Security SIG. There were some discussions on this, and it was agreed that K.P. (Suba) Subbalakshmi and Jianwei Huang will take the discussions offline to arrive at a good solution.

8. Next TCCN Meeting

The Chair announced that the next meeting will be in the IEEE Globecom 2015 conference (6-10 December 2015, San Diego, CA, USA).

9. Any Other Business

There was no other business.

The meeting adjourned at 17:30.

Attendance Record

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