



*IEEE Globecom, Atlanta, 11<sup>th</sup> December 2013*

**IEEE Technical Committee on  
Cognitive Networks (TCCN)  
Meeting Agenda and Supporting Information**

***David Grace  
IEEE TCCN Chair***

# Meeting Agenda

- 1. Welcome and Intros**
- 2. Approval of the Agenda**
- 3. Approval of the TCCN meeting minutes (ICC 2013)**
- 4. Introduction to TCCN**
- 5. Report on TCCN Recertification**
- 6. Reports on Special Interest Groups**
- 7. Reports on**
  - (a) Conferences (e.g. Globecom 2013, ICC 2014, DySPAN 2014)
  - (b) Reports on publications (JSAC series issue, etc)
  - (c) Standard activities (IEEE 802.22/16, IEEE DySPAN, TVWS, ITU-R, ETSI, ARIB etc)
- 8. Report on Best Paper Award**
- 9. Other new ideas and initiatives**
- 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.’

# Joining TCCN

- **All are welcome – TCCN is open**
- **Email List (1457 members – December 2013)**
  - [tccn@comsoc.org](mailto:tccn@comsoc.org)
- **Website**
  - [http://cms.comsoc.org/eprise/main/SiteGen/TC\\_CN/Content/Home.html](http://cms.comsoc.org/eprise/main/SiteGen/TC_CN/Content/Home.html)
- **Member**
  - Attend at least 1 meeting, or
  - Join the email list
- **Active (Voting) Members (see Policy and Procedures for strict definition)**
  - Attended 2 out of 5 of the last TCCN Meetings, and/or
  - Made a significant contribution to Cognitive Networks
  - Vote in elections, stand for an elected officer position
  - **Policy & Procedures to be updated in June 2014 (at ICC Meeting)**

# Report on TCCN Recertification

- **Comsoc Technical Activities Council reviews all TCs every 3 years**
  - TCCN Examined in June
  - Recommendation to be recertified
- **Feedback key points**
  - Active members – would like numbers
  - Website, generally well done, a few points to address
  - No issues with P&P, Publications, Standards/Industry and Collaboration
  - Awards – make sure nominations are put forward
  - SIGs - Creation is a good aspect '***Be sure that the SIGs are made known to the Chair of the ComSoc Industry Content and Exhibition Committee. These SIGs can/should contribute content to all ComSoc portfolio events.***

# 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](mailto:tccn@comsoc.org)**
- **SIGs especially welcome in the areas of:**
  - Standards
  - Industry
  - Spectrum Sensing
  - Dynamic Spectrum Access
- **Active SIGs**
  - Security – K.P. (Suba) Subbalakshmi (Stevens) and Charles Clancy (Virginia Tech)
- **Examples of SIGs in other TCs (TSCGCC)**
  - <https://sites.google.com/site/gcccomsoc/sig>

Cognitive Radio Networks Security  
Special Interest Group  
Status Report GLOBECOM 2013

**Chair:** K.P. Subbalakshmi, Stevens Institute of  
Technology, [ksubbala@stevens.edu](mailto:ksubbala@stevens.edu)

**Vice-Chair:** Charles Clancy, Virginia Tech,  
[tcc@vt.edu](mailto:tcc@vt.edu)

# Security SIG

- The Sec-SIG provides a forum for researchers in the cognitive networks security area to exchange ideas and to collaborate on initiatives of interest to the group.



# Activities of Security SIG

- CN Sec-SIG now has a LinkedIn group to gather all researchers interested in this area and is located at:
  - [http://www.linkedin.com/groups?home=&gid=5070076&trk=anet\\_ug\\_hm](http://www.linkedin.com/groups?home=&gid=5070076&trk=anet_ug_hm)
- If you are interested in being involved in CN Sec-IG, you can use the LinkedIn group as a convenient way to get in touch.

# Activities of Security SIG

- Guest Editing the EURASIP Journal on Advances in Signal Processing; Special Issue on Security Challenges and Issues in Cognitive Radio Networks
- Mini-Course, Dynamic Spectrum Access Wireless Networking: Security, Systems and Standards, WiFiUS Summer School, Rensselaer Polytechnic Institute, August 14--16, 2013

# Cognitive Networks Security SIG Officials

- Chair: K.P. (Suba) Subbalakshmi, Assoc. Prof. Stevens Institute of Technology.
- Vice-Chair: Charles Clancy, Assoc. Prof., Virginia Tech. Director, Ted and Karyn Hume Center for National Security and Technology.

## Reports on...



**(a) Conferences** (e.g. Globecom 2013, ICC 2014, DySPAN 2014)

**(b) Publications (JSAC series issue, etc)**

- New IEEE Transactions on Cognitive Communications and Networks approved
  - 70% Comsoc, 20% SigProc Soc, 10% Computer Soc
  - To start January 2015

**(c) Standards** (IEEE 802.22/16, IEEE DySPAN, TVWS, ITU-R, ETSI, ARIB etc)

## Report on Best Paper Award

- **Best Paper Award Sub-Committee**
  - Chaired by R. Chandramouli (Mouli) – Stevens Institute of Tech.
  - Representatives from the U.S, France, Australia, Singapore, UK
- **Call for nominations emailed to TCCN list**
  - Deadline extended once
- **Two nominations received**
- **Committee decided not to give any awards this year**
- **Call for nominations will be sent again in June 2014**

## Agenda Contd



- **New Ideas and Initiatives**
- **Next TCCN Meeting**
  - At ICC 2014 Sydney, Australia (10-14 June 2014)
- **Any Other Business**