



*IEEE ICC, Budapest, Hungary 11<sup>th</sup> June 2013*

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

***David Grace  
IEEE TCCN Chair***

# Meeting Agenda

- 1. Welcome and Introduction**
- 2. Approval of the Agenda**
- 3. Approval of the TCCN meeting minutes (Globecom 2012)**
- 4. Establishing Special Interest Groups**
- 5. TCCN Recertification**
- 6. Best paper awards committee**
- 7. Reports on conferences and publications  
(ICC 2013, Globecom 2013, DySPAN 2013, JSAC series issues)**
- 8. Reports on standard activities (IEEE 802.22/16, IEEE DySPAN, TVWS, ITU-R, ETSI, ARIB etc)**
- 9. Other new ideas and initiatives**
- 10. Next TCCN Meeting**
- 11. Any other business**

# Welcome



‘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 (1539 members – May 2013)**
  - [tccn@comsoc.org](mailto:tccn@comsoc.org)
- **Member**
  - Attend at least 1 meeting
  - Join the email list
- **Active Members (see Policy and Procedures for strict definition)**
  - Attended 2 out of 5 of the last TCCN Meetings
  - Significant contribution to CR
  - Vote in elections, stand for an elected officer position

# Establishing Special Interest Groups

- **Aim is to promote important activities in TCCN**
- **SIGs will be 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
- **SIG suggestions from members so far**
  - Security – K.P. (Suba) Subbalakshmi (Stevens) and Charles Clancy (Virginia Tech)
  - Internet of Things and Machine to Machine Communications – Ali Zaidi, (U. of Leeds)
  - Advanced Multicarrier Waveforms for Next Generation Flexible Broadband Radio Interfaces – Carlos Bader and Jacques Palicot (Supelec)
- **Examples of SIGs in other TCs (TSCGCC)**
  - <https://sites.google.com/site/gcccomsoc/sig>

# Establishing Special Interest Groups

**We propose that SIGs:**

- 1. Have a Chair and one or more Vice-Chairs to manage and promote the SIG**
- 2. Have their scope and objectives clearly defined**
- 3. Are only accepted if there is a clear initial programme of activities, and sufficient support from TCCN members.**
- 4. Are approved by a committee of the elected TCCN officers**
- 5. Are listed on the TCCN website**
- 6. Have a list of Founding Members (which are the members establishing the SIG and say joining in the first 3 months)**
- 7. Report by either the SIG Chair or Vice-Chair to the TCCN Meetings every six months on their past activities, and planned activities over the next 12 months**
- 8. Can be closed due to inactivity by the elected TCCN officers**

# Cognitive Radio Networks Security Special Interest Group

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)

# Scope of Security SIG

- With the cognitive networks poised to make significant impact in the wireless world, security concerns are important and must be addressed at the design stage. This is a multi-disciplinary problem with several interacting components.
- The Sec-SIG will provide a forum for researchers in the cognitive networks security area to exchange ideas and to collaborate on initiatives of interest to the group.



# Projected Activities of Security SIG

- CN Sec-SIG will start a LinkedIn group to gather all researchers interested in this area. We will use this forum to
- We will float special issues on this topic in journals and special tracks and/or workshops in the area
- We will come up mechanisms for the community to get involved in international standards board.

# Cognitive Networks Security SIG Officials

- Chair: K.P. (Suba) Subbalakshmi, Assoc. Prof. Stevens Institute of Technology. Vice-Chair, TCCN, North America Region, 2011-2013.
- Vice-Chair: Charles Clancy, Assoc. Prof., Virginia Tech. Director, Ted and Karyn Hume Center for National Security and Technology.
- If you are interested in being involved in CN Sec-IG, please e-mail: [ksubbala@stevens.edu](mailto:ksubbala@stevens.edu)

## ***Globecom 2013***

When: *Dec 9-13, 2013*

Where: *Atlanta*

Symposium/Track: *Cognitive Radio and Networks Symposium*

Co-chairs: *Andrea Giorgetti, Dusit (Tao) Niyato, Richard Yu*

TCCN representative: *Andrea Giorgetti (andrea.giorgetti@unibo.it)*

Total Submissions: *186*

Acceptance Rate (final/expected): *will be decided in the ICC'13 meeting*

#TPC members: *420*

Avg number of reviews/paper = *3-4*

Rebuttal process *N*

Keynote speech: *NA*