IEEE Technical Committee on Cognitive Networks (TCCN)

Chair: Jianwei Huang

The Chinese University of Hong Kong

Officers (2016-2018)

- **Chair**
  - Jianwei Huang, The Chinese University of Hong Kong, China

- **Vice-Chairs**
  - Oliver Holland, Kings College London, UK (TCCN Vice-Chair Europe/Africa)
  - Walid Saad, Virginia Tech, USA (TCCN Vice-Chair Americas)
  - Lingyang Song, Peking University (TCCN Vice-Chair Asia Pacific)

- **Secretary**
  - Yue Gao, Queen Mary University of London

Agenda

- **Welcome and introduction**
- **Attendance register**
- **Approval of the Agenda**
- **Approval of the ICC 2017 TCCN meeting minutes**
- **Reports on Special Interest Groups (SIGs)**
  - Overview of SIGs, by Jianwei Huang, The Chinese University of Hong Kong
  - SIG reports, by SIG Chairs (and their representatives)
- **Reports on standards activities**
  - IEEE DySPAN-SC/1900 activities, by Oliver Holland, King's College London
  - IEEE 802.22 activities, by Oliver Holland, King's College London
- **Reports on conferences**
  - ICC 2018 Cognitive Radio and Wireless Networks Symposium, by Kai Zeng, George Mason University, USA

Agenda (Cont.)

- **Reports on publications**
  - Transactions on Cognitive Communications and Networking, by Michele Zorzi, University of Padova
  - TCCN Newsletter, by Walid Saad, Virginia Tech University
- **TCCN Awards**
  - TCCN Recognition Award, by Ekram Hossain, University of Manitoba
  - TCCN Publication Award, by Geoffrey Li, Georgia Institute of Technology
  - TCCN Awards Procedures, by Jianwei Huang, The Chinese University of Hong Kong
- **Administrative matters**
  - Report on website, by Vijay Rao, Delft University of Technology
  - LinkedIn and Facebook, by Zhijin Qin, Imperial College London
- **TCCN nominations**
  - ICC/GC Symposium Chairs
  - IEEE ComSoc Distinguished Lecturers
  - IEEE Fellow (endorsement)
- **How to get involved in TCCN**

TCCN Special Interest Groups (SIGs)

- **What is an SIG?**
  - SIGs are mini-TC, representing the hop and emerging research areas in the general field of cognitive networks
- **What does an SIG do?**
  - Organize journal special issues
  - Organize workshops and conferences
  - Organize other related technical activities (conference call, blogs, etc.)
- **Who are in an SIG?**
  - Leadership team: a Chair, one or more Vice-Chairs, one or more advisors
  - 10+ key members
  - Considering geographical and academia/industry balance
- **How to establish an SIG?**
  - Fill in the form with the proposed SIG team and activities http://cn.committees.comsoc.org/special-interest-groups-sigs/application-for-special-interest-groups/
  - Send to TC Chair
  - Usually go through 1-2 rounds of feedback before official approvement

Current Status of TCCN SIGs

- **2 SIGs established before 2017**
  - SIG: Cognitive Network Security
  - SIG: Cognitive Radio for 5G
- **1 SIG established in first half of 2017**
  - SIG: Data-Driven Cognitive Networks
- **3 SIGs established in the second half of 2017**
  - SIG: AI Embedded Cognitive Networks
  - SIG: Social Behaviour Driven Cognitive Radio Networks
  - SIG: Cognitive Communications and Networking in Cyber-Physical Systems
- **Next: SIG reports**

TCCN Awards

- **TCCN has two awards**

- **IEEE ComSoc TCCN Recognition Award**
  - The recognition award is given to (up to) one individual who is deemed to have made significant and sustained contributions to cognitive network community. The intent is to recognize contributions over a period of time via any of the following modalities including combinations thereof:
    - **Scholarly excellence** in cognitive network research as evidenced by publications, patents and hardware/software prototypes;
    - Technical or scholarly leadership as evidenced by contributions to standards, patents, leading research, and/or significant project management;
    - Meritorious service to the cognitive network community inclusive of IEEE ComSoc, industry and government policy.

- **IEEE ComSoc TCCN Publication Award**
  - The recognition award is given to (up to) one individual or group who are deemed to have made outstanding technical contributions to TCCN. The basis of judgment will be archival, peer-reviewed publications in ComSoc conferences and journals over any period prior to the award year.

TCCN Award Procedures

- **Two awards are overlapping in the area of Scholarly excellence**
- **To avoid confusion, propose to remove "scholarly excellence" from recognition award**
- **IEEE ComSoc TCCN Recognition Award:**
  - Technical or scholarly leadership and meritorious service to the cognitive network community
- **IEEE ComSoc TCCN Publication Award:**
  - Outstanding technical contributions to TCCN as evidenced by publications.

TCCN Nominations

- **ICC/GC Symposium Chairs**
- **ComSoc Distinguished Lecturers**
- **IEEE Fellows**

ICC/GC Symposium Chair Nominations

- **TCCN supports "Cognitive Radio and Network Symposium" in ICC/GC**
- **Open call-for-nominations from TCCN members**
- **Decisions voted by TCCN Officers (avoiding CoI)**
- **Selection criterions**
  - Research record
  - Service record
  - **Service record to TCCN: SIG, Newsletter, Standardization, Publicity, Conference, Journal**

ComSoc Distinguished Lecturers (DLs) Nominations

- **TCCN nominates up to 4 ComSoc Distinguished Lecturers every September**

- **Open call-for-nominations from TCCN members**

- **Decisions voted by TCCN Officers (avoiding CoI)**

- **Selection criterions**
  - Research record
  - Public speaking record
  - **Service record to TCCN: SIG, Newsletter, Standardization, Publicity, Conference, Journal**

- **DLs can also be nominated by individual IEEE Senior Members**

IEEE Fellow Endorsements

- **TCCN can endorse IEEE Fellow nominations**
- **Typically done by the TCCN Chair**
  - With consultations with other officers if necessary
- **Focusing on both the technical and service contributions to TCCN**

How to Get Involved in TCCN

- **Many ways of getting involved**
    - Organize Special Interest Groups (SIGs) (contact: Jianwei Huang, Lingyang Song)
    - Organize special issues for the TCCN Newsletter (contact: Walid Saad)
    - Participate in TCCN related standardization efforts (contact: Oliver Holland)
    - Contribute to the publicity efforts of TCCN (contact: Yue Gao)
    - Involve TCCN in ComSoc conference organization (contract: Lingyang Song)
    - Involve TCCN in ComSoc journal special issues (contact: Jianwei Huang)

- **TC will reward excellent volunteers through various nominations and endorsements**