

IEEE Communications Society (ComSoc) Ad Hoc & Sensor Networks Technical Committee (AHSN TC)

AHSN TC Meeting at IEEE ICC 2019, Shanghai, China

Chair: Cheng Li

Vice Chair: Soumaya Cherkaoui

Secretary: Jiajia Liu

Tuesday, May 21, 2019, 7:30 am - 9:00 am

Room Dalian/Level 2/Pudong Shangri-La Hotel

Meeting Agenda

- Welcome and introduction
- Approval of the agenda
- Approval of the minutes of the GC'18 AHSN TC meeting
- Business arising from the minutes
- Chair's report
- AHSN TC newsletters
- Standard Liaison Report
- Update on AHSN TC activities on conferences/symposia
- Other business
- Next AHSN TC meeting
- Meeting adjourn

Minutes from AHSN TC Meeting held at GC 2018

Date and location : 9-13 December 2018, Abu Dhabi, UAE

Chaired by AHSN TC Chair: Cheng Li

Attended by: the other TC officers and TC members

Meeting minutes

- Agenda approved
- Previous meeting minutes approved
- AHSN TC rectification approved
- AHSN TC newsletters update
- Standard Liaison Report
- Update on AHSN TC activities on conferences/symposia
- Next AHSN TC meeting

Report from the Chair

- **TC Re-certification**

- Last re-certified in 2016
- Notified in 2017
- Recertification every 3 years
- Need to submit re-certification form by May 31, 2019

- **TC Membership Form**

- Email circulated to the mailing list on April 27, 2019
- Approved by TEA-C and prepared by ComSoc staff
- Rational: The number of the subscribers in the TC mailing list will no longer be considered as a precise measure of the TC membership
- Recognition: TC membership information will be posted on TC website
- Deadline for filling the form is May 30, 2019
- Information provided to TC Chairs after May 2019
- Will be used to determine TC membership status for recertification and election
- Link to the form available at:
<https://www.comsoc.org/form/comsoc-technical-committee-member>

Report from the Chair

• TC Awards

- In the ComSoc P&Ps, there is no definition of TC awards procedures.
- This item was left out from the approval of the TCB P&P just because there was no time left to elaborate it and send it to the Governance Committee previous to the last TC Board meeting.
- It is essential to have a consistent procedure for TC awards across all TCs. This P&Ps will legitimate decisions, provide transparency and consistency.
- ComSoc awards have a fully detailed P&Ps for each award.
- Having P&Ps for TC Awards will diminish vague complains by outsiders on the credibility of TC Awards
- Motion to bring the proposal for TC Awards P&Ps to be voted at TEA-C meeting tomorrow morning (May 22, 7:30-9:00).

Report from the Chair

• TC Membership

- TC membership requires ComSoc membership. (P&Ps approved in Abu Dhabi).
- “Guest membership” – those who are active volunteers but non-ComSoc members.
- “Guest” → “Affiliated Volunteer” → “Collaborator”

• Listing of Member on TC Website

- TC members
- Guest members
- A continuous procedure to accept new members
- The acceptance as a TC member should be a collective decision in TC meetings and not a decision made solely by a TC Chair.

Report from the Chair

- **Discussion #1**

- Merge of the Ad Hoc and Sensor Networks Symposium and the Internet-of-Things (IoT) Track
- New name: IoT and Sensing Networks Symposium
- Jointly sponsored by the AHSN TC (lead) and IOT ETI
- Start from ICC'21, Montreal
- Possibly kick back to earlier GC/ICC conferences if well managed

- **Discussion #2**

- Re-brand our TC name for evolution and updating

TC Newsletter Update

- TC Newsletter Update
 - Dr. Sidi-Mohammed Senouci, France
 - Dr. Yacine Ghamri-Doudane, University of La Rochelle, France
- Newsletter Article
 - Title: Ensuring Safety of Vulnerable Road Users using their smartphones and fogging: Challenges and Solutions
 - Authors: Esubalew Alemneh(U.Burgundy, France), Sidi Mohammed Senouci(U. Burgundy, France)
 - The aim of this work is to develop an infrastructure-less collision prediction solution that employs smartphones and an emerging computing paradigm called fog computing. Wide existence of smartphones coalesced with their increased computing, storage, and network capability have made them candidates to many applications including traffic safety applications.
- Link to different issues of the newsletter moved to the TC web portal
 - <http://ahsn.committees.comsoc.org/newsletter/>
- Next 2019 Newsletter Articles (ICC'19)
 - Contributions are solicited.

TC Newsletter Editorial Board

- Editor-in Chief

- Yacine Ghamri-Doudane, University of La Rochelle, France

- Co-Editor-in Chief

- Sidi-Mohammed Senouci, University of Burgundy, France

- Co-Editors

- Mohamed Fathy Feteiha, Queen's University, Canada
- Burak Kantarci, University of Ottawa, Canada
- Damla Turgut, University of Central Florida, U.S.A.

The members of the TC Newsletter Editorial Board can be contacted for any additional information regarding possible contributions

Standards Liaison Report

Sharief Oteafy

Assistant Professor
School of Computing
DePaul University, USA
Web: soteafy.com

ComSoc Meetings

Representing **AHSN** in the following ICC '19 meetings:

- IEEE ComSoc **Standards Development Board (SDB)**
- IEEE ComSoc **Standardization Program Development Board (SPDB)**
- Emerging TC: Tactile Internet Sub-Committee
(IEEE P1918.1)
- IEEE Big Data TC

ComSoc Standardization Program Development Board (CSPDB) mandate

- Identifying novel high-risk/high-payoff ideas
- Nurturing selected ideas towards pre-standardization maturity
- Allocating resources for Vision and Research Projects to advance such ideas
- Understanding and disseminating the essence of innovation
- Establishing journals and conferences related to innovation

C SPDB – Current initiatives

- Developing an “Industry Impact Factor”
- “Best Readings on Innovation”
 - Following the example of PLC:
<http://www.comsoc.org/best-readings/powerline-communications>
- Interested? Chair: Dr. Nada Golmie

Standards Development Board (SDB)

Sponsors standards in communications and networking technologies.

In addition to “established” TCs, they also sponsor “Emerging Technical Subcommittees”, such as:

- Internet of Things
- Applications of Nanotechnology in Communications
- Cloud Communications and Networking
- Human Centric Sensing and Communications
- Nano-Scale, Molecular, and Quantum Networking
- Smart Grid Communications
- Social Networks
- Vehicular Networks and Telematics Applications

Potential collaborations

- Interested in:
 - Standards development?
 - New ideas for “collaborations across TCs”? E.g. AHSN TC with IoT ETC?
 - Joining IEEE Tactile Internet or IEEE Big Data TC?
 - Working on AHSN codecs for the Tactile Internet standard?

- Contact:

Sharief Oteafy

soteafy@depaul.edu

Highlighted Activities

- AHNTC is one of the most active TCs in IEEE ComSoc Standards Development (SDB) Board.
- AHSNTC liaison is also member of SPDB.
- AHNTC liaison provides comments and suggestions on various activities including the commission of new standards projects.
- Liaison participates in the discussions regarding new PARs and standards that interesting to AHSNTC.
- AHNTC has been a vocal proponent for involving TCs actively in IEEE SDB/SPDB.
- AHNTC presence in IEEE SPDB has a long lasting impact on future communication technologies.

Important Related Activities

ComSoc Rapid Reaction Standardization-5G

ComSoc Group - 5G Standardization Activities. By invitation of Standards Activities Council

Research Group of IoT Services

RG Chair-Yacine Ghamri-Doudane. Membership: IoT Services RG, CSPDB, ComSoc SA Council, Supporting Staff.

Research Group of IoT Infrastructures

RG Chair-JaeSeung Song. Membership: IoT Architectures RG, CSPDB, ComSoc SA Council, Supporting Staff.

Research Group on IoT Communications and Networking Infrastructure

RG Chair-Stefano Giordano. Membership: IoT Communications and Networking Infrastructure RG, CSPDB, ComSoc SA Council, Supporting Staff.

Important Related Activities (Cont'd)

Research Group on SDN/NFV - Structured Abstractions

CSPDB Research Group on SDN/NFV - Structured Abstractions, Chair Ken Kerpez

RG on Software Defined and Virtualized Wireless Access

Standardization Research Group on Software Defined and Virtualized Wireless Access

Cloud Communications and Networking (new)

Emerging Technical Subcommittee on Cloud Communications and Networking

Please join these groups on:
<http://community.comsoc.org/groups>

TC Activities on Conferences/Symposia

GC/ICC Technical Symposia that AHSN TC Sponsors

- **Ah Hoc and Sensor Networks Symposium**
 - **Mobile and Wireless Networking Symposium**
 - **Wireless Communications Symposium**
 - **Cognitive Radio and Networks Symposium**
 - **Next Generation Networking Symposium**
- ICC'19, Shanghai, China, May 20-24 2019
 - GC'19, Hawaii, USA, December 9-13 2019
 - ICC'20, Dublin, Ireland
 - GC'20, Taipei, December 7-11, 2020
 - ICC'21, Montreal, Canada
 - GC'21, Madrid, Spain
 - ICC'21, Seoul, South Korea
 - GC'22, Rio de Janeiro, Brazil
 - ICC'23, Rome, Italy

Ad Hoc and Sensor Networks Symposium ICC'2019, Shanghai, China

◆ **Co-Chairs**

- ◆ *Hossam Hasanein, Queen's University, Canada*
- ◆ *Jijia Liu, Xidian University, China*
- ◆ *Christos Douligeris, University of Piraeus, Greece*

◆ **Sponsoring committees**

- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Information Infrastructure (TCII)

◆ **Statistics**

- ◆ Paper submissions: 167
- ◆ TPC members: 361
- ◆ Accepted papers: 64
- ◆ Acceptance rate: 38.3%

Wireless Networking Symposium ICC'2019, Shanghai, China

◆ **Co-Chairs**

- ◆ Mianxiong Dong, Muroran Institute of Technology, Japan
- ◆ Ye Li, Nantong University, China
- ◆ Noriaki Kamiyama, Fukuoka University , Japan
- ◆ Wei Chen, Tsinghua University, China

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: 279
- ◆ TPC members: 215
- ◆ Accepted papers: 109
- ◆ Acceptance rate: 39.1%

Cognitive Radio and Networks Symposium ICC'2019, Shanghai, China

◆ **Co-Chairs**

- ◆ Lingjie Duan, Singapore Uni. of Technology and Design, Singapore
- ◆ Li Wang, Beijing University of Posts and Telecom, China

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ **Statistics**

- ◆ Paper submissions: 55
- ◆ TPC members: 139
- ◆ Accepted papers: 20
- ◆ Acceptance rate: 36.4%

Wireless Communications Symposium ICC'2019, Shanghai, China

◆ **Co-Chairs**

- ◆ Xu (Judy) Zhu, University of Liverpool, UK
- ◆ Harpreet Dhillon, Virginia Tech, USA
- ◆ Feifei Gao, Tsinghua University, China
- ◆ Julian Cheng, University of British Columbia, Canada
- ◆ Andreas Knopp, Universität der Bundeswehr München, Germany

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: 438
- ◆ TPC members: 486
- ◆ Accepted papers: 170
- ◆ Acceptance rate: 38.8%

Next Generation Networking Symposium ICC'2019, Shanghai, China

◆ **Co-Chairs**

- ◆ Stefano Secci, UPMC Sorbonne, France
- ◆ Miao Zhao, Hong Kong Polytechnic University
- ◆ Rami Langar, UPEM, France

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ **Statistics**

- ◆ Paper submissions: 231
- ◆ TPC members: 136
- ◆ Accepted papers: 90
- ◆ Acceptance rate: 39%

Ad Hoc and Sensor Networks Symposium GC'2019, Hawaii, USA

◆ **Co-Chairs**

- ◆ *Shuai Han, Harbin Institute of Technology, China*
- ◆ *Maode Ma, Nanyang Technological University, Singapore*
- ◆ *Guanding Yu, Zhejiang University, China*

◆ **Sponsoring committees**

- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Information Infrastructure (TCII)

◆ **Statistics**

- ◆ Paper submissions: 169
- ◆ TPC members: 361
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Mobile and Wireless Networks Symposium GC'2019, Hawaii, USA

◆ **Co-Chairs**

- ◆ Jun Zheng, Southeast University, China
- ◆ Qiang Li, Huazhong U. of Science and Technology, China
- ◆ Lin Bai, BUAA, China
- ◆ Chia-Han Lee, National Chiao Tung University, Taiwan

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: 275
- ◆ TPC members: 215
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Cognitive Radio and AI-Enabled Networks Symposium GC'2019, Hawaii, USA

◆ Co-Chairs

- ◆ Daniel Benevides da Costa, Federal University of Ceará, Brazil
- ◆ Faouzi Bader, CentraleSupélec campus of Rennes, France

◆ Sponsoring committees

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ Statistics

- ◆ Paper submissions: 93
- ◆ TPC members: 139
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Wireless Communications Symposium GC'2019, Hawaii, USA

◆ **Co-Chairs**

- ◆ Chuan Huang, UESTC, China
- ◆ Vasanthan Raghavan, Qualcomm, USA
- ◆ Jie Xu, GDUT, China
- ◆ Cenk Gursoy, Syracuse University, USA
- ◆ Panagiotis Demestichas, University of Piraeus, Greece

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: 444
- ◆ TPC members: 486
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Next-Generation Networking and Internet Symposium GC'2019, Hawaii, USA

◆ Co-Chairs

- ◆ Laurent Ciavaglia, Nokia Bell Labs, France
- ◆ *Luca Foschini, University of Bologna, Italy*
- ◆ Alessio Botta, University of Naples, Italy

◆ Sponsoring committees

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ Statistics

- ◆ Paper submissions: 191
- ◆ TPC members: 136
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Ad Hoc and Sensor Networks Symposium ICC'2020, Dublin, Ireland

◆ **Co-Chairs**

- ◆ *Rodolfo Coutinho, University of Ottawa, Canada*
- ◆ *Weixiao Meng, Harbin Institute of Technology, China*
- ◆ *Abdellatif Kobbane, University of Rabat, France*

◆ **Sponsoring committees**

- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Information Infrastructure (TCII)

◆ **Statistics**

- ◆ Paper submissions: TBD
- ◆ TPC members: TBD
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Wireless Networking Symposium ICC'2020, Dublin, Ireland

◆ **Co-Chairs**

- ◆ Baoxian Zhang, University of Chinese Academy, China
- ◆ Marios Angelopoulos, Bornemouth University, UK
- ◆ Ismail Guvenc, North Carolina State University, USA
- ◆ Lin Gao, Harbin Institute of Technology, China

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: TBD
- ◆ TPC members: TBD
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Cognitive Radio and Networks Symposium ICC'2020, Dublin, Ireland

◆ **Co-Chairs**

- ◆ Kai Yang, Tongji University, China
- ◆ Bruno Clercx, Imperial College, UK

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ **Statistics**

- ◆ Paper submissions: TBD
- ◆ TPC members: TBD
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Wireless Communications Symposium ICC'2020, Dublin, Ireland

◆ **Co-Chairs**

- ◆ Xiaoming Tao, Tsinghua University, China
- ◆ Xiangyun Zhou, Australian National University, Australia
- ◆ Changchuan Yin, BUPT, China
- ◆ Yuan Shen, Tsinghua University, China
- ◆ Paulo Cardieri, Unicamp, Brazil

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)

◆ **Statistics**

- ◆ Paper submissions: TBD
- ◆ TPC members: TBD
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

Next Generation Networking Symposium ICC'2020, Dublin, Ireland

◆ **Co-Chairs**

- ◆ Nadjib Aitsaadi, University of Paris East, France
- ◆ Yusheng Ji, National Institute of Informatics, Japan
- ◆ Muhammad Ali Imran, University of Glasgow, UK

◆ **Sponsoring committees**

- ◆ Technical Committee on Wireless Communications (WC)
- ◆ Technical Committee on Ad Hoc and Sensor Networks (AHSN)
- ◆ Cognitive Radio Networks

◆ **Statistics**

- ◆ Paper submissions: TBD
- ◆ TPC members: TBD
- ◆ Accepted papers: TBD
- ◆ Acceptance rate: TBD

GC'2020, Taipei, December 2020

Symposium Chair Recommendation from the AHSN TC

- Prof. Hyunbum Kim, University of North Carolina at Wilmington, USA
- Prof. Abd-Elhamid Taha, Alfaisal University, Saudi Arabia
- Prof. Vojislav Mistic, Ryerson University, Canada
- Prof. Dongmei Zhao, McMaster University, Canada

Other Businesses

- 2019 AHSN Technical Committee Technical Achievement Recognition Award
- AHSN TC Officer Election
- Future GC/ICC Technical Program Committee Activities
- IEEE Fellow / Senior Member Promotion

Officer Contact Information

Chair

Dr. Cheng Li, Professor, P.Eng. SMIEEE

Department of Electrical and Computer Engineering, Memorial University, Canada

Tel: +1-709-864-8972, Email: licheng@mun.ca

URL <http://www.engr.mun.ca/~licheng/>

Vice Chair

Dr. Soumaya Cherkaoui, Professor, Ing.

Department of Electrical and Computer Engineering, Sherbrooke University, Canada

Tel: +1-819-821-8000 Email: s.cherkaoui@usherbrooke.ca

URL <https://www.gel.usherbrooke.ca/interlab/index.php?page=soumaya/>

Secretary

Dr. Jiajia Liu, Professor, SMIEEE

School of Cybersecurity, Northwestern Polytechnical University, CHINA

Tel: +86-029-8819-1730 Email: liujiajia@nwpu.edu.cn

URL <http://web.xidian.edu.cn/jjliu/en/index.html>