



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

AHSN TC Meeting at IEEE Globecom 2017, Singapore

Chair: Jalel Ben-Othman

Vice Chair: Cheng Li

Secretary: Soumaya Cherkaoui

**Tuesday, December 5th , 7:00am-8h30am**

**Marina Bay Sands hotel, Room 4212**

# Meeting Agenda

- Welcome and introduction
- Approval of the agenda
- Approval of the minutes of the ICC'17 AHSN TC meeting
- Business arising from the minutes
- AHSN TC 2017 outstanding technical contribution award
- AHSN TC 2017 Officer Election
- 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 ICC 2017

**Date and location :** Monday, May 22nd 2017, Paris, Hyatt Regency Etoile Hotel

**Meeting Start:** 12:00pm

**Chaired by AHSN TC Chair:** Jalel Ben Othman

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

**Meeting Finish:** 13:10pm

# The AHSN Technical Committee 2017 Technical Recognition Award

The AHSN TC Technical Recognition Award aims to

*Promote ad hoc and sensor networks research and development activities in both academic and industrial communities.*

This award is established as part of the AHSN TC activities in which R&D takes place in areas related to ad hoc and sensor networks. The award recognizes members of the IEEE Communications Society (ComSoc) who have made significant contributions to technological advancement of ad hoc and sensor networks.

# The AHSN Technical Committee 2017 Technical Recognition Award

- The AHSN TC Technical Recognition Award will be given in each calendar year. If no suitable candidate is proposed in a given year, the award will not be presented for that year. The award will be announced and conferred during the IEEE Global Communications (GLOBECOM) conference.
- Nominations are solicited by e-mail from the AHSN TC members. All nominations must be sent to the AHSN Award Selection Committee in PDF or text format by July 15 of the year in which the award is to be given.
- The nominations should include a concise description of the candidate's contributions to the technological advancement of ad hoc and sensor networks and any supporting materials showing that the candidate has met the award eligibility criteria.

# The AHSN Technical Committee 2017 Technical Recognition Award

## 2017 Technical Recognition Award Selection Committee

**Dr. Nei Kato (Chair)**  
**(Tohoku University, Past TC chair)**

**Dr. Jalel Ben Othman**  
**(Tohoku University, current TC chair)**

**Dr. Azzedin Boukerche**  
**(University of Ottawa, past TC chair)**

**Dr. Hossam Hassanein**  
**(Queens University, past TC chair)**

**Dr. J. J. Garcia-Luna-Aceves**  
**(UCSC, Past Award Recipient)**

# 2017 AHSN TC Technical Recognition Award

## Prof. Weihua Zhuang

For significant research contributions to resource allocation, distributed network control, and mobile user positioning



IEEE COMMUNICATIONS SOCIETY  
AD HOC & SENSOR NETWORKS TECHNICAL COMMITTEE

2017 TECHNICAL RECOGNITION AWARD

Presented To

**WEIHUA ZHUANG**

FOR SIGNIFICANT RESEARCH CONTRIBUTIONS TO RESOURCE ALLOCATION,  
DISTRIBUTED NETWORK CONTROL, AND MOBILE USER POSITIONING



A handwritten signature in black ink, appearing to read 'Harvey A. Freeman'.

**HARVEY FREEMAN**  
President 2016 - 2017

A handwritten signature in black ink, appearing to read 'Luigi Fratta'.

**LUIGI FRATTA**  
Vice President- Technical & Educational Activities

# The AHSN Technical Committee 2017 Officer Election Position and Candidates

## Chair Candidate

Dr. Cheng Li (Memorial University, Canada)

## Vice Chair Candidate

Dr. Soumaya Cherkaoui, (University of Sherbrooke, Canada)

## Secretary Candidates

Dr. Jiajia Liu (Xidian University, China)

Dr. Sharief Oteafy (DePaul University, MI, USA)



# The AHSN Technical Committee

## Secretary Candidate Bio – Jiajia Liu

**Dr. Jiajia Liu** received his B.S. and M.S. degrees both in computer science from Harbin Institute of Technology in 2004 and from Xidian University in 2009, respectively, and received his Ph.D. degree in information sciences from Tohoku University in 2012. He was a JSPS special research fellow in Tohoku University from Apr. 2012 to Oct. 2013, and a data analytics engineer in Aviation Industry Corporation of China from Jul. 2004 to Aug. 2006.

He has been a Full Professor at the School of Cyber Engineering, Xidian University, since 2013, and has been selected into the prestigious “Huashan Scholars” program by Xidian University since 2015. He has published more than 70 peer-reviewed papers in many high quality publications, including prestigious IEEE journals and conferences. He has received the Best Paper Awards from many international conferences including IEEE flagship events, such as IEEE WCNC in 2012 and 2014. He was the recipient of the prestigious 2012 Niwa Yasujiro Outstanding Paper Award. He was also a recipient of the Tohoku University President Award 2013, Graduate School of Information Sciences Dean Award 2013, Professor Genkuro Fujino Award 2012, Chinese Government Award for Outstanding Ph.D. Students Abroad 2011 and the RIEC Student Award 2012. He has been actively joining the society activities, like serving as associate editor for IEEE Transactions on Computers (Oct. 2015-present), the editor for IEEE Network (July 2015-present), guest editors of top ranking international journals like IEEE Transactions on Emerging Topics in Computing (TETC), IEEE Internet of Things (IoT) Journal, etc., and serving as technical program committees of numerous international conferences. He is a senior member of IEEE.

# The AHSN Technical Committee

## Secretary Candidate Bio – Sharief Oteafy

Dr. Sharief Oteafy is an Assistant Professor at the School of Computing, DePaul University, USA. He received his PhD in 2013 from Queens University, Canada, focusing on adaptive resource management in Next Generation Sensing Networks; introducing the notion of Organic sensor networks that adapt to their environment, and scale with resource augmentation. He is actively engaged in the IEEE Communications Society (ComSoc), and is a Professional member in both IEEE and ACM, having joined them since 2008. Dr. Oteafy is the IEEE ComSoc Ad Hoc and Sensor Networks (AHSN) Standards Liaison, and on the ComSoc Tactile Internet standards Working Group.

He is the recipient of the 2016 Howard Staveley Teaching Award, and was nominated for both the 2015 AMS Frank Knox Award for Excellence in Teaching and 2014 Queen's Alumni award for Excellence in Teaching, all at Queens University. He co-authored a book on "Dynamic Wireless Sensor Networks", published by Wiley, presented over 40 peer-refereed publications, and delivered multiple tutorials on the IoT and Next Generation Networks. Dr. Oteafy co-chaired a number of IEEE workshops, in conjunction with IEEE ICC and IEEE LCN conferences, and served on the TPC of numerous IEEE and ACM symposia. He is currently an Associate Editor with IEEE Access, and on the editorial board of Wiley's Internet Technology Letters.

# TC Newsletter Update

- TC Newsletter Update
  - Dr. Sidi-Mohammed Senouci, France
  - Dr. Yacine Ghamri-Doudane, University of La Rochelle, France
- 2017 Newsletter Article
- **Title:** Security Issues and Solutions in Smart Grid: FUSE-IT European -Project Use-case
  - **Authors:** Mohamed Attia (U.Burgundy, France), Sidi Mohammed Senouci(U. Burgundy, France), Shohrer Avhar (IMTTSP,France), Jen Rossey (IMEC, Belgium), Luc Lutin (NIKO, Belgium) and Isabel Praça (GECAD, Portugal)
  - The aim of this work is to develop a smart secured building system, incorporating secured shared sensors, effectors and devices strongly interconnected through trusted federated energy & information networks.
- Link to different issues of the newsletter moved to the TC web portal
  - <http://ahsn.committees.comsoc.org/newsletter/>
- Next 2018 Newsletter Articles (ICC' 18)
  - 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

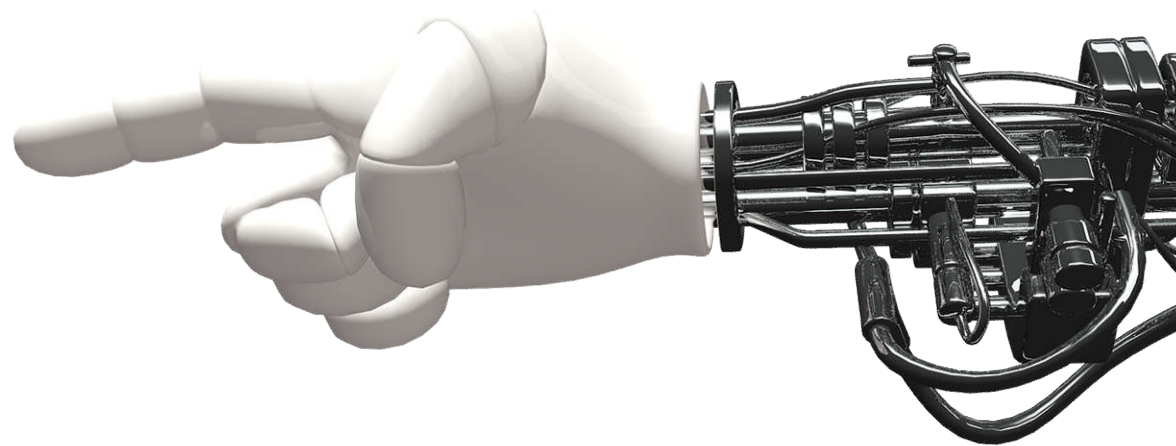
# Highlighted Activities

Representing **AHSN** in the following GC '17 meetings:

- IEEE Communications Society Standardization Program Development Board
- IEEE Big Data TC
- Emerging Technology Committee: Tactile Internet Sub-Committee
- Tactile Internet WG – Currently a voting member

# IEEE P1918.1 WG

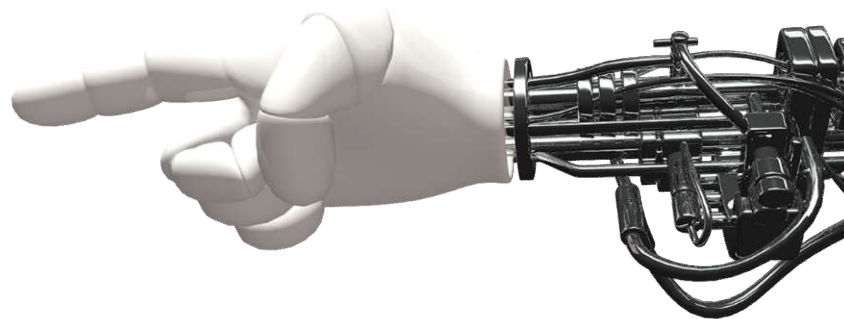
**Tactile Internet:** Application Scenarios, Definitions and Terminology, Architecture, Functions, and Technical Assumptions



# AHSN – Our fit

Remote Control in perceived real-time

**Tangible  
object**



**Remote  
Operator**

Haptic feedback

Contextual information from AHSNs



# Potential collaborations

- Interested in joining IEEE Big Data TC?
- Working on Codecs for the Tactile Internet standard?
- Contact:

**Sharief Oteafy**

[oteafy@cs.queensu.ca](mailto:oteafy@cs.queensu.ca)

# 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
- GC' 17, Singapore, December 4-8, 2017
  - ICC' 18, Kansas City, USA, May 20-24 2018
  - GC' 18, Abu Dhabi, UAE, December 9-13 2018
  - ICC' 19, Shanghai, China, May 20-24 2018
  - GC' 19, Hawaii, USA, December 9-13 2018
  - 2020 ICC Dublin
  - 2020 GC Taipei
  - 2021 ICC Montreal

# Ad Hoc and Sensor Networks Symposium ICC' 2018, Kansas City, MO, USA

## ◆ **Co-Chairs**

- ◆ Soumaya Cherkaoui, University of Sherbrooke, Canada
- ◆ Bin Xiao, Hong Kong University, China
- ◆ Xianfu Lei, Southwest Jiaotong University, China
- ◆ T. Venkatesh, IIT-Guwahati, India

## ◆ **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: 134
- ◆ TPC members: 361
- ◆ **Accepted papers:**
- ◆ **Acceptance rate:**

# Wireless Networking Symposium ICC' 2018, Kansas City, MO, USA

## ◆ **Co-Chairs**

- ◆ Azzedine Boukerche, University of Ottawa, Canada
- ◆ Frank Li, University of Agder, Norway
- ◆ Min Sheng, Xidian University, China
- ◆ Yong Li, Tsinghua University, China

## ◆ **Sponsoring committees**

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

## ◆ **Statistics**

- ◆ Paper submissions: 190
- ◆ TPC members: 215
- ◆ **Accepted papers:**
- ◆ **Acceptance rate:**

# Cognitive Radio and Networks Symposium ICC' 2018, Kansas City, MO, USA

## ◆ **Co-Chairs**

- ◆ Kai Zeng, George Mason University, USA
- ◆ Jiajia Liu, Xidian University, China
- ◆ Feng Ye, University of Dayton, USA

## ◆ **Sponsoring committees**

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

## ◆ **Statistics**

- ◆ Paper submissions: 84
- ◆ TPC members: 139
- ◆ **Accepted papers:**
- ◆ **Acceptance rate:**

# Wireless Communications Symposium ICC' 2018, Kansas City, MO, USA

## ◆ Co-Chairs

- ◆ Huiling Zhu, University of Kent, UK
- ◆ Walaa Hamouda, Concordia University, Canada
- ◆ Lian Zhao, Ryerson University, Canada
- ◆ Lingjia Liu, Virginia Tech, USA
- ◆ Junfeng Xiao, Huawei Technologies, China

## ◆ Sponsoring committees

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

## ◆ Statistics

- ◆ Number of submissions: 422
- ◆ Number of TPC members: 486
- ◆ **Number of accepted papers:**
- ◆ **Acceptance rate:**

# Next Generation Networking Symposium ICC' 2018, Kansas City, MO, USA

## ◆ **Co-Chairs**

- ◆ Pascal Lorenz, University of Haute Alsace, France
- ◆ Wei Wang, San Diego State University, USA
- ◆ Shuai Han, Harbin Institute of Technology, China
- ◆ Michele Nogueira, Federal University of Parana, Brazil

## ◆ **Sponsoring committees**

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

## ◆ **Statistics**

- ◆ Paper submissions: 196
- ◆ TPC members: 136
- ◆ **Accepted papers:**
- ◆ **Acceptance rate:**

# Other Businesses

- 2017 AHSN Technical Committee Technical Recognition
- Future GC/ICC Technical Program Committee Activities
- IEEE Fellow / Senior Member Promotion



# Next AHSN TC Meeting

- Next AHSN TC meeting at GC' 17, Singapore.
- See you then.



# Officer Contact Information

## Chair

Dr. Jalel Ben-Othman, Professor  
University of Paris 13 Tel: +33-149 40 28 93, Email: [jbo@univ-paris13.fr](mailto:jbo@univ-paris13.fr)  
URL: <http://www-12ti.univ-paris13.fr/~jbo/>

## Vice Chair

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## Secretary

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