

**Minutes of the IoT & AHSN TC meeting**  
**Held in conjunction with IEEE ICC 2023**  
**Time: Wednesday May 4, 2023, 9:00 am - 10:30am EST**  
**Location: online**

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**IoT & AHSN TC Officers:**

Chair: Jiajia Liu

Vice Chair: Sharief Oteafy

Secretary: Shuai Han

**Number of Attendees:** 62

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The meeting started at 9:05 am.

**Welcome message and introduction**

Dr. Jiajia Liu welcomed the attendees of the IoT & AHSN TC meeting. A total of 62 attendees were present at the meeting. The attendees were reminded to add their names to the chat window as well as a Google form to register attendance.

**Approval of the meeting agenda**

Dr. Jiajia called for approval of the agenda. The motion was moved by Dr. Sharief Oteafy, and seconded by Dr. Mohsen Guizani. The motion passed unanimously.

**Approval of the minutes of the Globecom 2022 IoT-AHSN TC meeting**

The motion to approve meeting minutes of the IEEE Globecom 2022 meeting was moved by Dr. Sharief Oteafy and seconded by Dr. Hossam Hassanein. The motion passed unanimously.

**IoT-AHSN TC 2022 Exceptional Service and Contribution Award**

Dr. Jiajia Liu introduced the criteria of this award.

The recipient of this year's award is **Dr. Cheng Li, Memorial University of Newfoundland, Canada**, for his to exceptional services to the committee. Dr. Jiajia Liu presented the award to the recipient. The attendees congratulated Dr. **Cheng Li** for winning this award.

**Remembering Dr. Ahmed Kamal**

Dr. Sharief proposed to remember Dr. Ahmed Kamal, who passed away suddenly a few days prior to the meeting. Dr. Kamal has contributed to this TC and the ComSoc for many years, and is a significant power behind to progress of this TC's activity. Cyn said a group had been set up to write a memorial for Dr. Kamal.

**Overview of IoT & AHSN TC**

Dr. Jiajia presented an overview of the IoT & AHSN TC, explaining its purpose, areas of interest, and membership conditions (enrolling in the mailing list & being a ComSoc member), and reminded the attendees of the official website for the TC: <https://ahsn.committees.comsoc.org/>

Attendees were asked to ensure that they register on the official mailing list with the full name and e-mail to ensure accurate tallying of active members in the TC.

## **The IoT & AHSN TC Newsletter Update**

The current TC Newsletter Editorial Board, comprised of the following TC members

Editor-in Chief: Qiang Ye, Dalhousie University, Canada

Co-Editors: Moez Essegir, University of Technology of Troyes, France

Lu Lv, Xidian University, China

- Dr. Jiajia presented a summary of the 17<sup>th</sup> newsletter, which featured 1 article, and it is posted on the newsletter homepage (under the TC webpage), which includes all past issues, at this link: <http://ahsn.committees.comsoc.org/newsletter/>
- A call for contributions to future editions of the newsletter was extended to all attendees.

## **Standards liaison report**

- Dr. Rodolfo Coutinho, Concordia University (Canada) is the stands liaison. Jiajia presented Rodolfo's report on liaison activities
- Dr. Coutinho represents IoT-AHSN in the IEEE SPDB, SDB, and its recent working group activities.
  - WG on VR and AR: 12 projects in development
  - WG on Standard for Metaverse

## **Industry Seminar Series**

- Dr. Anwar Haque is the industry liaison.
- Shuai introduced the seminars instead of Anwar. Anwar invited Dr. Clifford Liem to give a talk entitled "The Explosion into Industry 4.0 - Private Wireless and Connected Industries".

## **Report from the chair on TC activities**

- An overview of the endorsement policy of the TC was presented by Dr. Jiajia. Specifically, when a conference is endorsed, a report on submissions, review process, etc., shall be sent to the TC for follow-up.
- The IoT & AHSN TC endorsed the following conferences:
  - CCCI 2023
    - Dr. Jalel Ben Othman, CentraleSupélec & Univ. of Sorbonne Paris Nord, France
    - Dr. Pascal Lorenz, Univ. of Haute Alsace, France
    - Dr. Joel Rodrigues, Senac Fac of Ceará, Brazil
  - IWCMC 2023
    - Dr. Jiajia Liu, Northwestern Polytechnical University, China
    - Dr. Bechir Hamdaoui, Oregon State University, USA
    - Dr. Shuai Han, Harbin Institute of Technology, China
    - Dr. Abdellatif Kobbane, Mohammed V University in Rabat, Morocco
    - Total number of submissions = 303
    - Acceptance ratio= 39
  - ICCSN 2023
    - Dr. Jiajia Liu, Northwestern Polytechnical University, China
    - Dr. Jalel Ben-Othman, University of Paris 13, France
    - Dr. Nobuo Funabiki, Okayama University, Japan
- GC/ICC Symposia (statistics were presented by Dr. Jiajia)
  - IoT & Sensor Networks (IoT-SN)
  - Mobile and Wireless Networks (MWN)

- Next Generation Networks (NGN)
- Wireless Communications Symposium (WC)
- Nominations have been made up to GC2024.
  - **Bomin Mao** (Northwestern Polytechnical University, China)
  - **Kaikai Chi** (Zhejiang University of Technology, China.)
  - **Kaigui Bian** (Peking University, China)
  - **Yang Wang** (University of Science and Technology of China)
  - **Noura Aljeri** (Gulf University for Science and Technology, Kuwait)
- Symposium Recommendation for ICC 2025
  - **Bomin Mao** (Northwestern Polytechnical University, China)
  - **Chuan Huang** (The Chinese University of Hong Kong, Shenzhen, China)
  - **Xu Chen** (Sun Yat-sen University, China)
- Endorsements for IEEE Fellow
  - No endorsement request made
  - Please contact us if you need endorsement
- Nomination for ComSoc Distinguished Lecturers
  - One TC member was nominated and awarded DL: Anwer Al-Dulaimi (term 2023-2024).
  - Please contact us if you would like to nominate yourself or a colleague.
- IoT-AHSN Committee Awards
  - Dr. Jiajia Liu introduced the history, objectives, the criteria and procedure of these two awards. The nomination will be solicited by e-mail from the AHSN TC members. Awards Subcommittee members are:
    - Subcommittee Chair: Soumaya Cherkaoui (Past TC Chair)
    - Subcommittee member: Hossam Hassanein (Past Chair)
    - Subcommittee member: Nirwan Ansari (Past Chair)
    - Subcommittee Member: Hussein Mouftah (Award Recipient)
    - Subcommittee Member: Shuai Han (TC Secretary)
  - The Deadline for 2023: September 9th, 2023

### Special Interest Groups

- The TC is running four active SIGs, with the following leadership:

<b>SIG</b>	<b>Lead</b>	<b>Advisor</b>
<b>ML for AHSN &amp; IoT</b>	Lyes Khoukhi	Damla Turgut
<b>IoT in Tactile Internet</b>	Liudong Xing Nikolaos Pappas	Soumaya Cherkaoui
<b>Internet of Unmanned Aerial Networks</b>	Moayad Aloqaily	Sidi-Mohamed Senouci
<b>Industrial IoT Networks</b>	Bernardi Pranggono	Abdallah Shami

- SIG on Machine Learning for AHSN and IoT networks:
  - Participation as a Symposium chair in IEEE ICC'23 IoTSN.
  - On May 19th, by Z. Abouelhouda (Professor at Yncrea Ouest)
  - Title: Intelligent vision for securing IoT 5G
  - Series of seminar about the use and applications of ML are under planning in the coming period.
  - A special issue about "Safety and Security in autonomous vehicles" from various perspectives (ML, optimization, etc.), is under progress in the Journal of "Transactions on Internet Technology".
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- SIG on IoT in Tactile Internet:
  - A webinar talk has been scheduled
  - **Time:** 9am, June 13, 2023 (Eastern Time)
  - **Title:** On the Utility of Gradient Compression in Distributed Training Systems
  - **Speaker:** Dr. Hongyi Wang, Carnegie Mellon University
- SIG on Internet of Unmanned Aerial Networks:
  - IEEE NOMS-ITAVT 2023
  - The 6th International Workshop on Intelligent Transportation and Autonomous Vehicles Technologies (ITAVT 2023)
  - SI in IEEE WCM
- SIG on Industrial IoT Networks:
  - -A special issue on "Internet of Things, Edge Computing, and Artificial Intelligence for Smart Grid" in the Energies journal.
  - -Webinar on "The Industrial Internet of Things Networking" on May 25, 2023, 16:00-17:00 BST by David Lou, Ph.D., Chief Researcher, Huawei Technologies.
- SIG Proposal received: Ubiquitous Intelligence for Internet of Vehicles
  - As one of the typical networking scenarios for Internet-of-Things (IoT), the Internet-of-Vehicles (IoV) enables seamless information dissemination and task processing among vehicles equipped with onboard sensing, communication, computing, and storage capabilities.
  - SIG leadership:
    - Chair: Qiang Ye, Memorial University of Newfoundland, Canada
    - Co-chair: Ning Zhang, University of Windsor, Canada
    - Co-chair: Peng Yang, Huazhong University of Science and Technology, China
    - Co-chair: Haixia Peng, Xi'an Jiaotong University, China
    - Co-chair: Xiaoyu Wang, China Aerospace Science & Technology Corporation
    - Advisor: Cheng Li, Memorial University of Newfoundland, Canada
  - Qiang Ye introduced the aim, scope, and activities of this SIG as a leading chair.
  - Jiajia made comments on the topic and believed that the SIG will contribute a lot to the TC and community in the coming years.
  - Dr. Sharief moved a motion to approve the SIG- Ubiquitous Intelligence for Internet of Vehicles. Shuai seconded the motion. Jiajia announced the motion had been passed.
  - Shuai pointed out we have two same names, "Qiang Ye." to remind the members not to be confused by the same names.

**Other Businesses**

- 2023 IoT-AHSN TC Technical Achievement and Recognition Award
- Future GC/ICC Technical Program Committee Activities
- IEEE Fellow/Senior Member Promotion

**Next meeting**

- Next IoT & AHSN TC meeting with IEEE GC2023
- The IEEE ComSoc is planning to hold all TC meetings in person starting from IEEE GC 2023.
- Next meeting will be in person in Kuala Lumpur.

**Meeting Adjourned at 10:00**

## Appendix A – List of attendees

Names	
Abd-Elhamid Taha	Louai Al-Awami
Abderrahim Benslimane	M Fatima Domingues
Ahmed Refaey Hussein	Michele Nitti
Aiman Erbad	Moayad Aloqaily
Amr Mohamed	Moez Esseghir
Baoxian Zhang	Mohammed Atiquzzaman
Bernardi Pranggono	Mokdad
Bomin Mao	Neeli Prasad
Boubakr Nour	Nitin Gupta
Burak Kantarci	Ouns Bouachir
Cheng Li	Peng SUn
Claudio Marche	Peng Sun
Damla Turgut	Qiang Ye (Dalhousie Uni, USA)
Danda B Rawat	Qiang Ye (Memorial Uni, Canada)
Daniele Tarchi	Ricardo Lent
Falko Dressler	Ruidong Li
Haixia Peng	Ruoyu Su
Hongzhi Guo	Safa Otoum
Hossam Hassanein	Sharief Oteafy
Houbing Song	Shuai Han
Hussein Mouftah	Soumaya Cherkaoui
Hyunbum Kim	Virginia Piloni
Ibrahim M. Amer	Vojislav Misic
Ismaeel Al Ridhawi	Wahab Almuhtadi
Jalel Ben Othman	Xiangwei Zhou
Jelena Misic	Xiaoyu Wang,
Jiada Wang	Xu Chen
Jijia Liu	Yu Wang
Kapal Dev	Yulei Wu
Kun Yang	Zhenyu Liu
Liudong Xing	Zijun Gong