Minutes of the IoT & AHSN TC meeting
Held in conjunction with IEEE ICC 2024
Time: Tuesday Aug. 27, 2024, 9 AM EST | 1 PM UTC | 9 PM Shanghai
Location: online

IoT & AHSN TC Officers:
    Chair: Sharief Oteafy
    Vice Chair: Shuai Han
    Secretary: Rodolfo Coutinho

Number of attendees: 62

The meeting started at 9 am.

Welcome message and introduction
Dr. Sharief Oteafy welcomed the attendees of the IoT & AHSN TC meeting. A total of 62 attendees were present at the meeting. The attendees were reminded to write down their names, email address, and affiliation to the Google form or Microsoft form prepared to register attendance.

Approval of the meeting agenda
Dr. Oteafy called for approval of the agenda. The motion was moved by Dr. Azzedine Boukerche and seconded by Dr. Shuai Han. The motion passed unanimously.

Approval of the minutes of the GLOBECOM 2023 IoT-AHSN TC meeting
The motion to approve the meeting minutes of the IEEE GLOBECOM 2023 meeting was moved by Dr. Hossam Hassanein and seconded by Dr. Jalel Ben Othman. The motion passed unanimously.

Overview and Introduction of IoT & AHSN TC
Dr. Sharief Oteafy introduced the new TC office and 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).

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, and they were remined of the official website for the TC: https://ahsn.committees.comsoc.org/ and to add their names in the forms prepared to register attendance.

The IoT & AHSN TC Newsletter Update
The current TC Newsletter Editorial Board comprise of the following TC members:
Editor-in-Chief: Qiang Ye (Dalhousie University, Canada) qye@cs.dal.ca
Co-Editors: Moez Esseghir (University of Technology of Troyes, France) and Lu Lv (Xidian University, China)

- Dr. Ye presented a summary of the 19th 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: https://ahsn.committees.comsoc.org/newsletter/

- A call for contributions to future editions of the newsletter was extended to all attendees.

IoT & AHSN TC Awards Committee
Dr. Sharief Oteafy introduced the history, objectives, the criteria and procedure of the IoT & AHSN Technical Achievement and Recognition Award and the IoT & AHSN Exceptional Service and Contribution Award. Attendees were informed that nominations for those awards will be solicited by email from the IoT & AHSN TC members and that both awards will be presented in the next TC meeting (GC 2024).

Standards liaison report
Dr. Oteafy introduced and welcomed the new TC standards liaison: Dr. Bomin Mao (Northwestern Polytechnical University, Xi'an, China).

Dr. Bomin Mao presented his report on liaison activities. He noted attending recent IEEE SPDB and SDB activities.

Dr. Mao presented a detailed overview on the work of the IEEE SPDB, SDB, and its recent activities:
- COM/SDB initiatives to promote collaboration with TCs
- COM/SDB call for collaboration with TC to propose new standards initiatives for IMT-2030 (6G)
- Report on WG P1888.5 - Standard for Ubiquitous Green Industrial Data Acquisition Network Protocol

Dr. Hossam Hassanein proposed to add description of standards WG (standards) in the TC newsletter.
Dr. Shuai Han proposed to add a table on the website on how to get access to standard liaison activities.

TC Industry Liaison
Dr. Sharief Oteafy thanked the efforts and contributions of past industry liaison Dr. Anwar Haque, Western University (Canada). He noted that a call for nominations for industry liaison (2024 - 2025) will be announced to TC members through the TC mailing list.

Report from the chair on TC activities
- An overview on the endorsement policy of the TC was presented by Dr. Sharief. Specifically, that 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:
  - WiMob 2024
  - ICECA 2024
  - ICCSN 2024
- GC/ICC 2024 Symposia (statistics were presented by Dr. Oteafy)
  - IoT & Sensor Networks (IoT-SN)
  - Mobile and Wireless Networks (MWN)
  - Next-Generation Networking & Internet (NGNI)
  - Wireless Communications Symposium (WC)
- Nominations has been made up ICC 2026
  - Walaa Hamouda (Concordia University, Canada)
  - Bomin Mao (Northwestern Polytechnical University, China)
  - Ayman Radwan (Universidade de Aveiro, Portugal)
  - Abd-Elhamid M. Taha (Alfaisal University, Saudi Arabia)
  - Peng Sun (Duke Kunshan University, China)
  - Noura Aljeri (Kuwait University, Kuwait)
  - Rodolfo Coutinho (Concordia University, Canada)
- Endorsement for IEEE Fellow
  - No endorsement request made
- Nomination for ComSoc Distinguished Lectures
  - Please contact us if you would like to nominate yourself or a colleague.
  - More information about DLP can be found at https://www.comsoc.org/membership/distinguished-lecturers/distinguished-lecturers-faq

Update on TC activities
- Achievements and activities of TC members.
  - Damla Turgut, IEEE ComSoC Distinguished Lecture on "I Did Not Sign Up for This: Limited Sharing in Privacy-Aware Smart Environments," hosted by New Jersey Institute of Technology, February 23, 2024
  - Damla Turgut, Invited Talk on "Privacy in smart healthcare," The 26th International Symposium on Wireless Personal Multimedia Communications (WPMC'23), Tampa FL, November 22, 2023

- o Damla Turgut, Invited Talk on "Bringing privacy into the picture: new optimization goals for ML/AI in smart environments," Colorado State University, Fort Collins, Colorado, November 1, 2023
- o Damla Turgut, Guest speaker at FSW Women In STEM Association (March 5, 2024)
- o Damla Turgut, Pegasus Professor, University of Central Florida, 2024
- o Damla Turgut, IEEE ComSoC Distinguished Lecturer, 2021-2025
- o Damla Turgut, IEEE ComSoC Women in Engineering (WIE) Distinguished Lecturer, 2024
- o Damla Turgut, TPC Co-Chair, IEEE SmartGridComm 2024
- o Damla Turgut, One of the co-organizers of N2Women and WICE Workshop at Globecom 2023

Special interest groups
- • The TC is running five active SIGs, with the following leadership:

SIG	Lead	Advisor
ML for AHSN & IoT	Lyes Khoukhi	Damla Turgut
IoT in Tactile Internet	Liudong Xing Nikolaos Pappas	Soumaya Cherkaoui
Internet of Unmanned Aerial Networks	Moayad Aloqaily	Sidi-Mohamed Senouci
Industrial IoT Networks	Bernardi Pranggono	Abdallah Shami
Ubiquitous Intelligence for Internet of Vehicles	Qiang Ye Ning Zhang Peng Yang Haixia Peng Xiaoyu Wang Huaqing Wu	Cheng Li

- • SIG on Machine Learning for AHSN and IoT networks:
  - – Organizing IEEE LCN 2024 at Caen (France) October 8-10, 2024
  - – Organizing and chairing the International Conference on New Technologies, Mobility and Security (NTMS), at Paris in February 2025
  - – July 19th, by Z. Abouelhouda (Professor at INRS)
    - • Title: Intelligent vision for securing IoT 5G
  - – Series of seminar about the use and applications of ML are under planning in the coming period

- • SIG on IoT in Tactile Internet:
  - – Organizing an IEEE IoT Journal Special Issue on: "Prognostics and Health Management using

the Internet of Things"

- Guest Editors:
  - Hansi Jiang (Hansi.Jiang@sas.com), SAS Institute Inc., USA
  - Liudong Xing (lxing@umassd.edu), University of Massachusetts, Dartmouth, USA
  - Zhaojun (Steven) Li (zhaojun.li@wne.edu), Western New England University, USA
  - Jeffrey Voas (jeff.voas@nist.gov), National Institute of Standards and Technology (NIST), USA

- SIG on Internet of Unmanned Aerial Networks:
  - Special Issues:
    - Augmented Intelligence of Things for Vehicle Road Cooperation Systems, IEEE IoT Journal
      - Guest Editors: Shahid Mumtaz, Mohsen Guizani, Victor C. M. Leung, Wei Wang, Wei Wei
    - UAV Networks for Internet of Things
      - Guest Editors: Tao Han, Ning Zhang, Mostafa M. Fouda, Xianfu Chen, F. Richard Yu
    - 6G Technologies and Applications, IEEE VT Magazine
      - Guest Editors: Anwer Al-Dulaimi, Harald Haas, Klaus David, Rose Hu

- SIG on Industrial IoT Networks:
  - Co-Chair for the ICPS Architectures and Engineering Technical Track, 7th IEEE International Conference on Industrial Cyber-Physical System (ICPS 2024), May 2024
  - A special issue on "Internet of Things, Edge Computing, and Artificial Intelligence for Smart Grid - 2nd Edition" in the Energies Journal. Deadline for manuscript submissions: August 2024
  - TPC member of the IEEE GLOBECOM Green Communications Systems and Networks Symposium (GLOBECOM 2024)
  - Keynote Speaker, "Securing the Internet of Things: Challenges, Strategies, and Future Directions," 9th International Conference on Cyber Security, Privacy in Communication Networks (ICCS), Cardiff Metropolitan University, Dec 2023

- SIG on Ubiquitous Intelligence for Internet of Vehicles
  - Conference/Workshop Organizations
    - IEEE GLOBECOM 2024 Symposium Co-chairs
      - Ning Zhang, SAC - Machine Learning for Communications
      - Huaqing Wu, Communication QoS, Reliability and Modeling
    - IEEE INFOCOM Workshop on Pervasive Network Intelligence for 6G Networks (PerAI-6G)
    - IEEE ICCC Workshop on Digital Twins and Pervasive Intelligence Synergy in Next-Gen 6G Networks (DTPI-6G)
    - IEEE GLOBECOM 2024, Workshop on Ubiquitous Network Intelligence for Next Generation Wireless Networks
    - IEEE GLOBECOM 2024, Workshop on the Impact of Multi-modal Large Language Models on 6G and Beyond

- Seminars
  - IEEE INFOCOM 2024
    - "Network Intelligence Meets Security and Privacy" by Prof. Xiaodong Lin, University of Guelph, Canada.
    - "Human Digital Twin (HDT) for Human-Centric Services: Construction, Deployment, and Application" by Prof. Jun Cai, Concordia University, Canada.
  - IEEE ICCC 2024
    - "Key Technologies for Intelligent Access Toward 6G Full-domain Convergence" by Prof. Xue Wang, Jilin University, China.
    - "Intelligent Networking and Computing for Next-Generation Wireless Applications" by Prof. Qiang (John) Ye, University of Calgary, Canada.

Future TC Activities

Dr. Sharief introduced the IEEE COMSOC student competition launched in 2013. He mentioned that the TC shall nomination a representative for the competition the committee.

Dr. Sharief discussed future plans for TC activities including efforts to organize workshop/conferences/journal SI and more webinars/seminars on IoV topics.

Other Businesses
- Future GC/ICC Technical Program Committee Activities
- IEEE Fellow/Senior Member Promotion
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Next meeting
- Next IoT & AHSN TC meeting with IEEE GC2024
- Next meeting will be **in person** in Cape Town, South Africa.

Motion to adjourn the meeting moved by Dr. Hossam Hassanein and seconded by Damla Turgut.

Meeting adjourned at 10:30 am.