

Minutes of the IoT & AHSN TC meeting
Held in conjunction with IEEE GlobeCom 2021
Time: Monday, November 22nd, 2022, 14:00 - 16:00 EST
Location: online

IoT & AHSN TC Officers:

Chair: Soumaya Cherkaoui

Vice Chair: Jijia Liu

Secretary: Sharief Oteafy

Number of Attendees: 51

The meeting started at 14:03 am.

• **Welcome message and introduction**

Dr. Soumaya Cherkaoui welcomed the attendees of the IoT & AHSN TC meeting. A total of 51 attendees were present at the meeting. The attendees were reminded to add their names to the chat window to register attendance.

• **Approval of the meeting agenda**

Dr. Cherkaoui called for approval of the agenda. The motion was moved by Dr. Jalel Ben Othman, and seconded by Dr. Moayad Aloqaily. The motion passed unanimously.

• **Approval of the minutes of the ICC 2021 IoT-AHSN TC meeting**

Motion to approve meeting minutes of the IEEE ICC 2021 meeting was moved by Dr. Sharief Oteafy, and seconded by Dr. Nidal Nasser. The motion passed unanimously.

• **Overview of IoT & AHSN TC**

Dr. Cherkaoui presented an overview of the IoT & AHSN TC, explaining its purpose, areas of interest, membership conditions (enrolling in 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.

• **IoT & AHSN TC Awards**

The IoT & AHSN TC Awards subcommittee members of 2020 – 2021 were updated in light of our P&Ps as follows:

Awards Subcommittee Chair: **Cheng Li** (Past Chair),

Awards Subcommittee Member: **Jalel Ben Othman** (Past Past Chair),

Awards Subcommittee Member: **Hossam Hassanein** (Past Past Past Chair)

Awards Subcommittee Member: **Weihua Zhuang** (Past Award Recipient)

Awards Subcommittee Member: **Sharief Oteafy** (TC officer)

The *IoT-AHSN Technical Achievement and Recognition award* was awarded to:

Dr. Nei Kato (Tohoku University, Japan) for his contributions to the field of IoT, Ad Hoc and Sensor networks.

Dr. Azzedine Boukerche (University of Ottawa, Canada) for his contributions to the field of autonomous connected vehicles and AI-based wireless and mobile networks.

The TC officers and members congratulated both award recipients on this deserved distinction.

- **Update on IoT & AHSN TC election process**

Dr. Cherkaoui presented the IoT & AHSN N&E committee members:

Chair: **Dr. Soumaya Cherkaoui**, Current TC Chair

Members:

- **Dr. Cheng Li**, Past TC Chair
- **Dr. Jalel Ben Othman**, Past TC Chair
- **Dr. Hossam Hassanein**, Past TC Chair

The election process and its important dates were explained and covered in the meeting. A call for nomination (self nomination accepted) was announced. The process was covered by the Chair, noting that nominees must be active members of 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: Moes Esseghir, University of Technology of Troyes, France

Lu Lv, Xidian University, China

- Dr. Qiang Ye presented a summary on the 14th newsletter (June 2021), which featured 6 articles, and they are 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 the 15th newsletter, titled “Cloud/Edge Computing for the Internet of Things” was announced, and an invitation for submission was extended to all attendees.

Industry Seminar Series

- Dr. Anwar Haque presented the plan for seminars from industry speakers, planned monthly. He is serving as the “Industry Liaison” for the TC for 2021-2022.
- An inaugural seminar was presented by Dr. Jianglei Ma (Chief scientist at Huawei Canada R&D center) on 26 June 2021, titled “Network sensing for 6G”, and the second part was presented on 27 September 2021.
- Dr. Javan Erfanian, distinguished member of technical staff at Bell Canada presented on 18 October 2021 a talk titled: “What Next?! 5G & Beyond”
- Dr. Clifford Liem, R&D manager at Nokia Canada is planned to present on 26 November 2021 @ 12 PM EST a talk titled: “iSIM: An IoT enabler & path to digital identity”

Standards liaison report

- Dr. Rodolfo Coutinho, Concordia University (Canada), presented his report on liaison

activities. He noted attending IEEE SA meetings, and recent IEEE SPDB and SDB activities.

- Dr. Coutinho presented a detailed overview on the work of the IEEE SPDB, SDB, and its recent activities.
- Dr. Coutinho is ending his current term by end of 2021, and a call for new Standards Liaison was issued by Dr. Cherkaoui. Nominations are to be sent to the TC officers, including a biography and a statement of interest in the position.

Special Interest Groups

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

SIG	Lead	Advisor
Internet of Unmanned Aerial Networks	Moayad Aloqaily	Sidi-Mohamed Senouci
Industrial IoT Networks	Neeraj Kumar	Abdallah Shami
ML for AHSN & IoT	Lyes Khoukhi	Damla Turgut
IoT in Tactile Internet	Sharief Oteafy & Nikolaos Pappas	Soumaya Cherkaoui

- The leaders of each SIG presented summaries of their activities, highlighting the following activities:
- SIG on IoT in Tactile Internet:
 - Distinguished seminar by Prof. Martin Maier, INRS, Canada, titled: “Cyber Physical Social Systems (CPSS) in the 6G era: From Tactile Internet to Internet of No Things”
- SIG on Machine Learning for AHSN and IoT networks:
 - Seminar by Dr. Melike Erol-Kantarci, University of Ottawa, Canada, titled: “Deep and Reinforcement learning in 5G and 6G”
 - Seminar by Dr. Lyes Khoukhi, Normandie University, France planned for 26 November 2021, titled: “Connected vehicles: Current and Intelligent perspectives”.
 - Seminar by Dr. Adlen Ksentini, EURECOM, France, titled: “IoT & 5G: Intelligent Vision” planned for November 2021.
- SIG on Internet of Unmanned Aerial Networks:
 - Seminar by Dr. Melike Erol-Kantarci, University of Ottawa, Canada in ITU 2021.
 - Special issue in IEEE Wireless Communications titled “Empowering sustainable energy infrastructures via AI-assisted wireless communications”
 - Tutorial on Edge-based distributed inference for efficient IoT Applications: Distributed inference of DNN for surveillance in multi-drone systems” held at IEEE CCECE
- SIG on Industrial IoT Networks:
 - Special Issue in IEEE Micro on “AI, Edge and IoT for smart agriculture”
 - Special Issue in IEEE TNSM on “Embracing AI for Network and Service management”

Report from the chair on TC activities

- An overview on the endorsement policy of the TC was presented by Dr. Cherkaoui. 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:
 - ISNCC 2021
 - General Chair: Dr. Adel Ben Mnaouer, Canadian University of Dubai, UAE.
 - WiMob 2021
 - General Chairs: Dr. Abderrahim Benslimane and Dr. Laurence Yang
 - Inaugural workshop on IoT and AHSN in the WF-IoT
 - Chairs: Dr. Moayad Aloqaily, Dr. Virginia Pilloni, Dr. Danda Rawat, Dr. Ning Zhang
 - ICNC 2023 (TPC chairs TBD)
 - GC/ICC Symposia (statistics were presented by Dr. Cherkaoui):
 - IoT & Sensor Networks (IoT-SN)
 - Mobile and Wireless Networks (MWN)
 - Next Generation Networks (NGN)
 - Wireless Communications Symposium (WC)
- Nominations have been made up to ICC 2023.
- Endorsements for IEEE Fellow
 - Visit www.ieee.org/fellows for more information about how to write the endorsements
- Nomination for ComSoc Distinguished Lecturers
 - Two TC members were nominated
 - Dr. Walaa Hamouda was awarded DL (Jan 2021 – Dec 2022)
 - Deadline for nomination for DL for the term Jan 2022 – Dec 2023 is September 30th 2021. Dr. Cherkaoui encouraged interested members to contact the officers for nominations (including self nominations)

- Dr. Cherkaoui reminded attendees that the IEEE TV makes available interesting talks that might be of interest to the TC community. The ComSoc YouTube channel was also mentioned. A reminder that the community can request the delivery of virtual distinguished lectures was presented.
- Finally, Dr. Cherkaoui opened the floor for discussions. She pointed out that any idea to promote TC activities and increase the number of submissions in the TC-sponsored symposia is welcomed.
- Dr. Moayad Aloqaily suggested that SIG activities could be reported in the TC newsletter.

Next meeting

- Next IoT & AHSN TC meeting with IEEE ICC 2022.

Motion to adjourn the meeting. Moved by: Dr. Soumaya Cherkaoui and seconded by: Dr. Rodolfo Coutinho

Meeting Adjourned at 15:05

Appendix A – List of attendees

Names	
Abd-Elhamid Taha	Ning Zhang
Ahmed Refaey Hussein	Nizar Zorba
Aldri Santos	Qiang Ye
Amine Abouaomar	Ranga Rao Venkatesha Prasad
Antonio Iera	Rasheed Hussain
Antonio Loureiro	Rodolfo Coutinho
Anwar Haque	Rongxing Lu
Arijit Roy	Safa Otoum
Ayman Radwan	Sharief Oteafy
Baoxian Zhang	Shuai Han
Bechir Hamdaoui	Soumaya Cherkaoui
Boubakr Nour	Sudip Misra
Burak Kantarci	Virginia Pilloni
Cheng Li	Vojislav Mistic
Cyn Sikora	Yu Wang
Damla Turgut	
Falko Dressler	
Fatima Domingues	
Hai Jiang	
Hassine MOUNGLA	
Jalel ben othman	
Jelena Mistic	
Jun Zheng	
Luca Foschini	
Lyes Khoukhi	
Lynda Mokdad	
Marwane Ayaida	
Melike Erol-Kantarci	
Meryem Simsek	
Moayad Aloqaily	
Mohammed Atiquzzaman	
Neeli Prasad	
Neeraj Kumar	
Nei Kato	
Nidal Nasser	
Nikolaos Pappas	