IoT, Ad Hoc and Sensor Networks Technical Committee

IoT & AHSN TC

Chair: Sharief Oteafy

Vice Chair: Shuai Han

Secretary: Rodolfo Coutinho

Post ICC 2024 meeting – Tuesday 27 August 2024 @ 9 am EST

https://depaul.zoom.us/j/99292657154

Please register your attendance

tinyurl.com/iot-ahsn-attendance-list

Agenda

- Welcome and introduction
- Approval of the agenda
- Approval of the minutes of the Globecom 2023 IoT-AHSN TC meeting
- Introduction to the IoT-AHSN TC
- IoT-AHSN TC Newsletters
- IoT-AHSN Awards committee update
- Standard Liaison Report
- Update on Industry Seminar series and call for nominations
- Update on IoT-AHSN TC activities in conferences/symposia
- Update on IoT SIG activities
- Other businesses
- Next IoT-AHSN TC meeting
- Meeting adjournment

Motion

To approve the agenda of the IoT & AHSN TC meeting for August 2024

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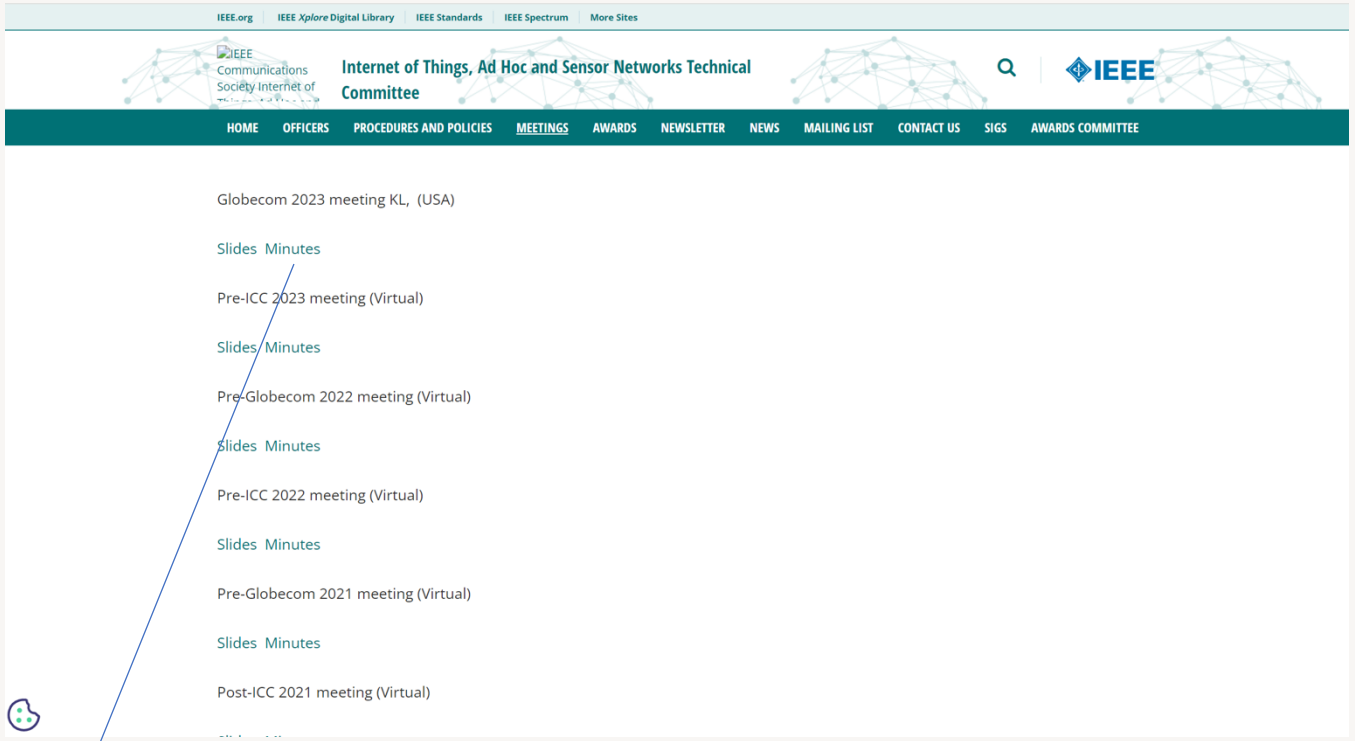
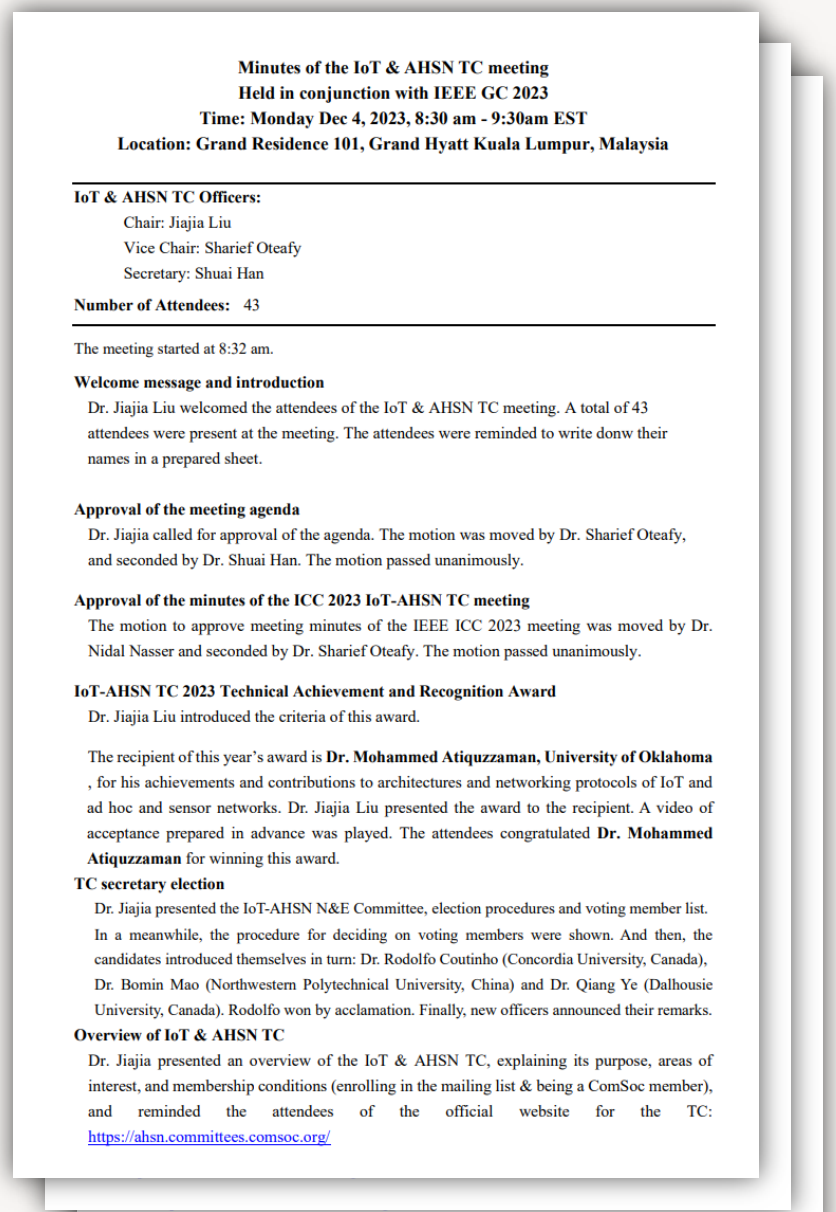
Minutes of the Globecom 2023 IoT-AHSN TC meeting



Motion

To approve the minutes of our Globecom 2023 IoT-AHSN TC meeting



Minutes of the IoT & AHSN TC meeting
Held in conjunction with IEEE GC 2023
Time: Monday Dec 4, 2023, 8:30 am - 9:30am EST
Location: Grand Residence 101, Grand Hyatt Kuala Lumpur, Malaysia

IoT & AHSN TC Officers:
Chair: Jiajia Liu
Vice Chair: Sharief Oteafy
Secretary: Shuai Han

Number of Attendees: 43

The meeting started at 8:32 am.

Welcome message and introduction
Dr. Jiajia Liu welcomed the attendees of the IoT & AHSN TC meeting. A total of 43 attendees were present at the meeting. The attendees were reminded to write donw their names in a prepared sheet.

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. Shuai Han. The motion passed unanimously.

Approval of the minutes of the ICC 2023 IoT-AHSN TC meeting
The motion to approve meeting minutes of the IEEE ICC 2023 meeting was moved by Dr. Nidal Nasser and seconded by Dr. Sharief Oteafy. The motion passed unanimously.

IoT-AHSN TC 2023 Technical Achievement and Recognition Award
Dr. Jiajia Liu introduced the criteria of this award.

The recipient of this year's award is **Dr. Mohammed Atiquzzaman, University of Oklahoma** , for his achievements and contributions to architectures and networking protocols of IoT and ad hoc and sensor networks. Dr. Jiajia Liu presented the award to the recipient. A video of acceptance prepared in advance was played. The attendees congratulated **Dr. Mohammed Atiquzzaman** for winning this award.

TC secretary election
Dr. Jiajia presented the IoT-AHSN N&E Committee, election procedures and voting member list. In a meanwhile, the procedure for deciding on voting members were shown. And then, the candidates introduced themselves in turn: Dr. Rodolfo Coutinho (Concordia University, Canada), Dr. Bomin Mao (Northwestern Polytechnical University, China) and Dr. Qiang Ye (Dalhousie University, Canada). Rodolfo won by acclamation. Finally, new officers announced their remarks.

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/

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Introducing the TC!

Introduction to the IoT-AHSN TC

Purpose

The IoT-AHSN TC will serve as ComSoc's focal point in the areas of the Internet of Things (IoT), ad hoc and sensor networks, and wireless networking technologies, stimulating and organizing leading-edge IoT, ad hoc and sensor networks, and wireless networking symposia, workshops, sessions and tutorials at ComSoc conferences. It will also serve as a proactive facilitator in the dissemination of evolving IoT, ad hoc and sensor networking, and wireless networking standards.

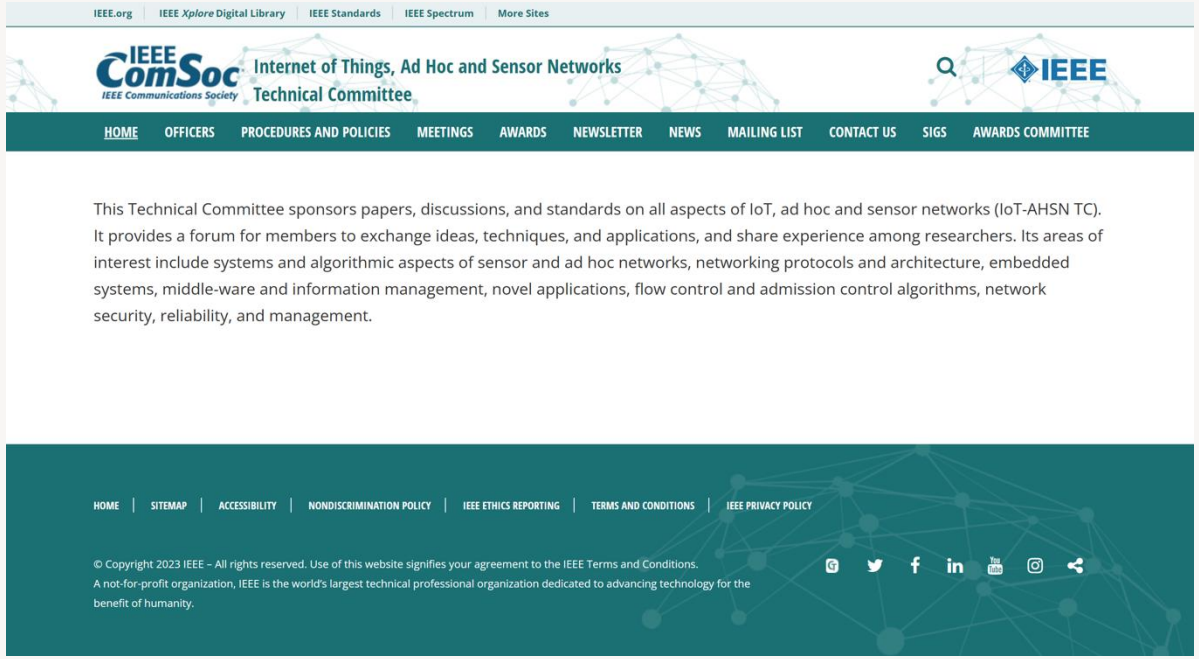
Areas of interest

Areas of interest include systems and algorithmic aspects of sensor and ad hoc networks, networking protocols and architecture, embedded systems, middle-ware and information management, novel applications, flow control and admission control algorithms, network security, reliability, and management.

Learn more about the IoT-AHSN TC

Website of the TC :

ahsn.committees.comsoc.org



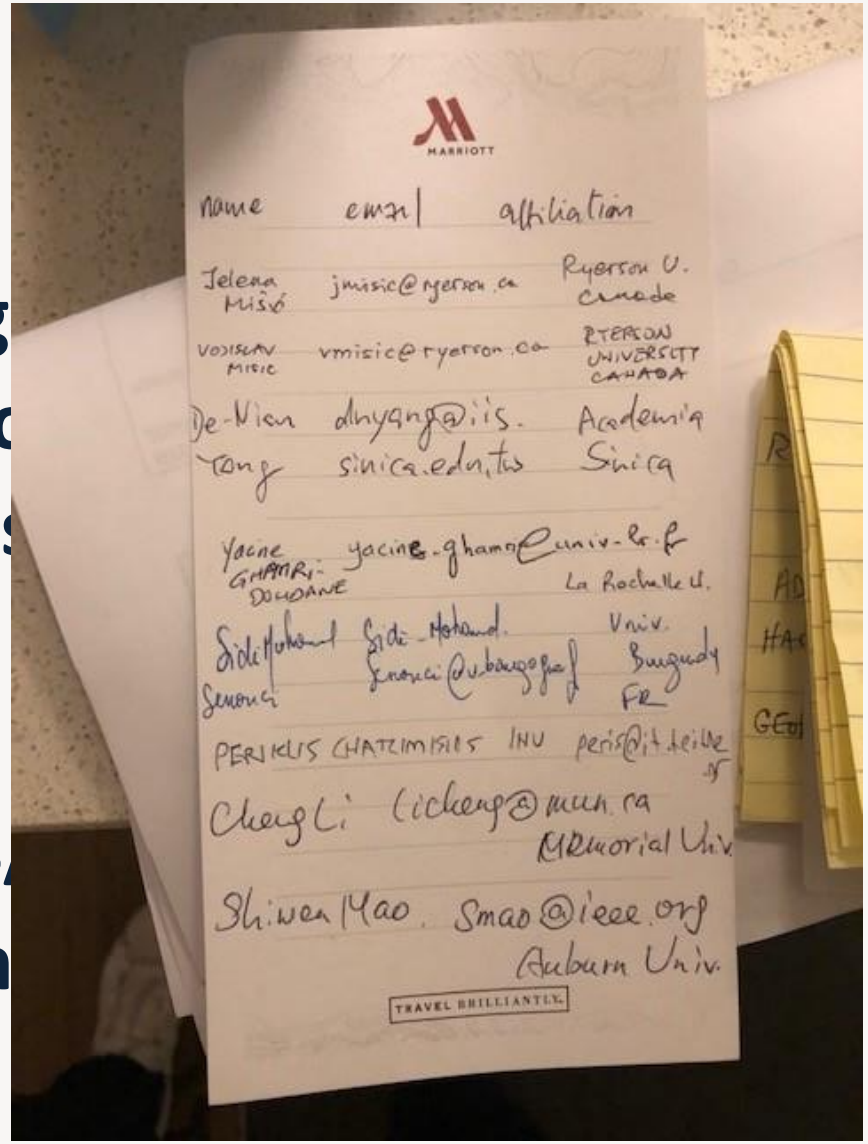
Mailing list of the TC:

ahsn@COMSOC.ORG

Membership in the IoT-AHSN TC

- **Membership of IoT-AHSN TC**
  - Open to all **ComSoc members**
  - Must **subscribe to IoT-AHSN TC mailing**
  - Note: **signing presence** doesn't **make yo**
  - **Currently 790+ subscribers (increasing s**

- **<u>Active</u> Membership of IoT-AHSN TC**
  - Need to attend at least **2 of 5 prior IoT-A**
  - It is important to register **your name an** you attend.



Membership in the IoT-AHSN TC

Mailing List

- Please add your name to subscribe at **ahsn@COMSOC.ORG**
- This is important to verify your ComSoc Membership
- Write your information in the form:

```
your name + affiliation + email
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TC officers for 2024 – 2025!

Meet our team! TC Officers (2024-2025)

Sharief Oteafy

TC Chair

Shuai Han

TC Vice Chair

Rodolfo Coutinho

TC Secretary

Sharief Oteafy, soteafy@depaul.edu
Shuai Han, hanshuai@hit.edu.cn
Rodolfo Coutinho, rodolfo.coutinho@concordia.ca

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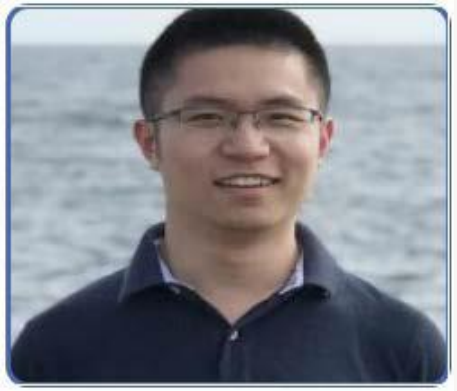
TC Newsletter
(presented by Qiang)

IoT-AHSN TC Newsletter



Newsletter Editor-In Chief:

Qiang Ye (Dalhousie University, Canada) qye@cs.dal.ca

Newsletter Co-Editors:

Moez Esseghir (University of Technology of Troyes, France)

Lu Lv (Xidian University, China)

IoT-AHSN TC Newsletter- Current Newsletter

- Version 19 is now posted on our web page:

https:/ /ahsn.committees.comsoc.org/newsletter/

- 1 article published in Vol. 1, No. 19

Shiyun Wang, *"A Concise Survey on Adversarial Attack against Network Intrusion Detection Systems".*

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TC Awards Committee

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TC standards liaison 2024 – 2025!

Welcome to our new Standards Liaison!

Bomin Mao

Northwestern Polytechnical University, Xi'an, China

(2024-2025)

maobomin@foxmail.com

Standards Liaison Report

- Representing IoT-AHSN in the following meetings/activities:
  - IEEE ComSoc Standardization Program Development Board (SPDB)
  - IEEE ComSoc Standard Development Board (SBD)
  - Follow the activities/advancements of current IEEE working groups that are working on the areas related to those covered by our committee

Standards Liaison Report

- COM/SDB is promoting collaboration with TCs
  - TCs contacted to validate COM-SDB liaisons
  - COM-SDB liaisons are invited to participate in the COM/SDB meetings
- P1888.5 - Standard for Ubiquitous Green Industrial Data Acquisition Network Protocol
- COM-SDB is asking for collaboration with TC to propose new standards initiatives for IMT-2030 (6G)
- 11:00 am – 1:00 pm MDT, June 10, 2024, Capital Room-Sheraton Denver Downtown Hotel

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TC industry Liaison

Industry Seminar Series – Thank you Anwar!

Past Industry Liaison:

Anwar Haque

Western University (Canada)

Industry Liaison (2024 – 2025): Call for nominations

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Update on TC activities

Endorsements

Update on IoT-AHSN TC Activities

1. Endorsement of Conferences for ComSoc Technical Co-Sponsorship

- Conference should :
  - be relevant to TC committee activities
  - Have at least three TC members involved in the TPC
  - Enjoy a good reputation among the community

- When the conference is endorsed, **report on submissions, review process, etc., shall be sent to the TC for follow up**

Update on IoT-AHSN TC Activities

1. Endorsement of Conferences for ComSoc Technical Co-Sponsorship

For 2024 the TC endorsed

- WiMob 2024
- ICECA 2024
- ICCSN 2024

WiMob 2024

General Chair

– Samuel Pierre, Polytechnique Montreal, Canada
– Chonggang Wang, InterDigital Communications, USA

Technical Program Committee

– Chadi Assi, Concordia University, Canada
– Claudio Casetti, Politecnico di Torino, Italy
– Nathalie Mitton, INRIA, France
– Danda B Rawat, Howard University, Washington DC, USA
– Han Shuai , Harbin Institute of Technology, China
– Chakchai So-In, Khon Kaen University, Thailand

Papers statistics

– Accepted papers: 24
– Acceptance ratio: 44.4 %

ICECA 2024

General Chair

– Dr. S. Vijayan, RVS Technical Campus, Coimbatore, India

Conference Chair

– Dr. S Sridhar, RVS Technical Campus, Coimbatore, India

Technical Program Committee Chairs

– Dr. Jiajia Liu, Professor, Northwestern Polytechnical University, China
– Pr. Pascal Lorenz, Professor, University of Haute Alsace, France
– Dr. Mohammed Atiquzzaman, Professor, The University of Oklahoma, US
– Dr. Bomin Mao, Professor, Northwestern Polytechnical University, China
– Dr. Dr.T. Senthilkumar, RVS College, Coimbatore, India.
– Dr. Tomonobu Senjyu, University of the Ryukyus, Japan.
– Dr. Paula Serdeira Azevedo, Universidade do Algarve, Portugal.
– Dr. Gustavo Medeiros Freitas, Federal University of Santa Catarina, Brazil.

Papers statistics

– Submission deadline: August 3, 2024

ICCSN 2024

General Chairs

- Xiang Shen, Ningbo University, China
- Jalel Ben-Othman, University of Paris 13, France

General Co-Chair

- Feng Shao, Ningbo University, China

Technical Program Committee Chairs

- Taijun Liu, Ningbo University, China
- Feng Jiang, National Key Laboratory of Electromagnetic Space Security, China
- Yuanguo Bi, Northeastern University, China
- Min Liu, Chongqing University, China
- Nobuo Funabiki, Okayama University, Japan
- Pascal Lorenz, University of Haute Alsace, France
- Shensheng Tang, St Cloud State University, USA

Papers statistics

- Number of paper submissions: 175
- Number of accepted papers: 85
- Acceptance rate: 48.6%

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Update on TC activities

TC Sponsored symposia

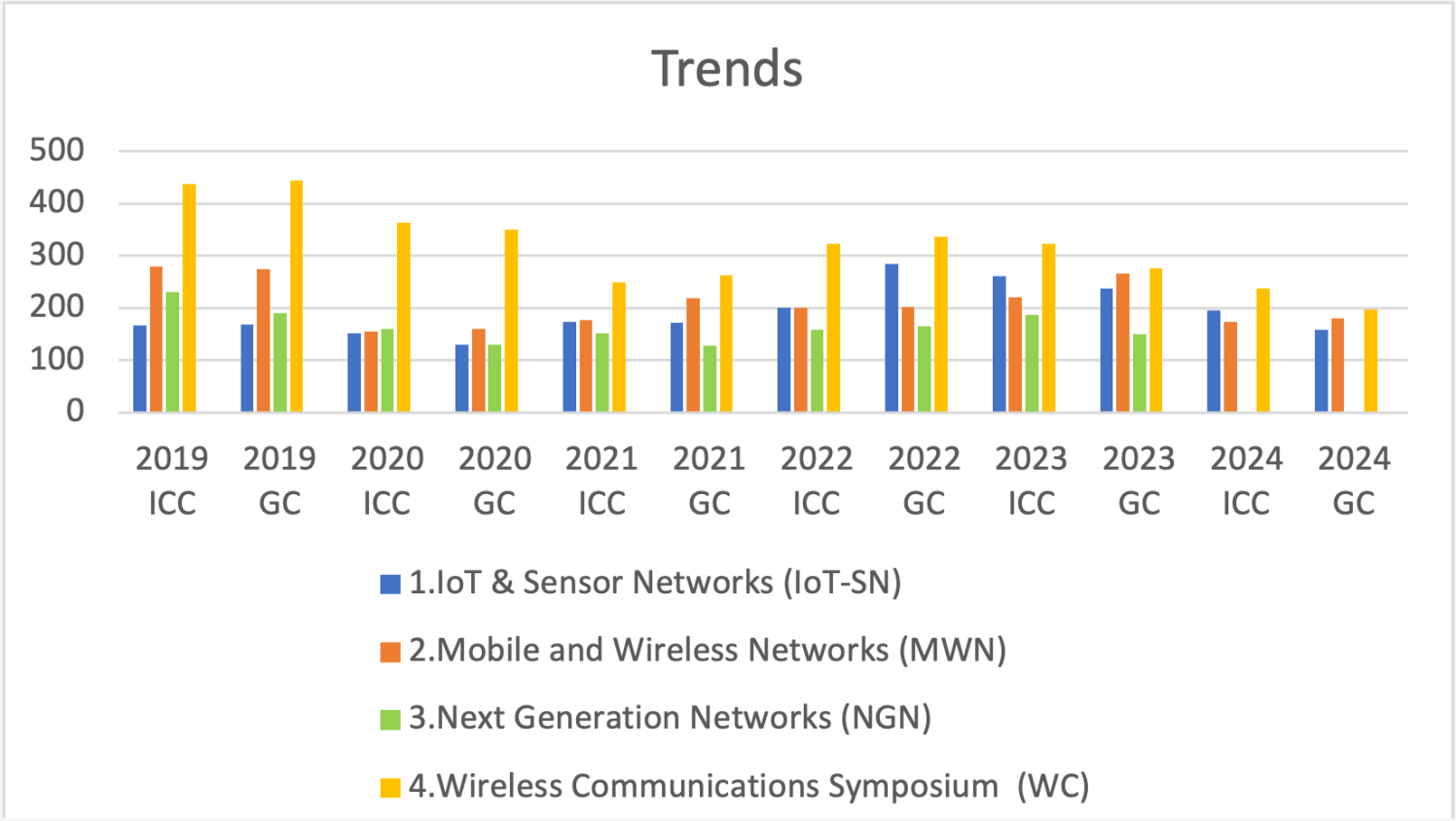
Update on IoT-AHSN TC Activities

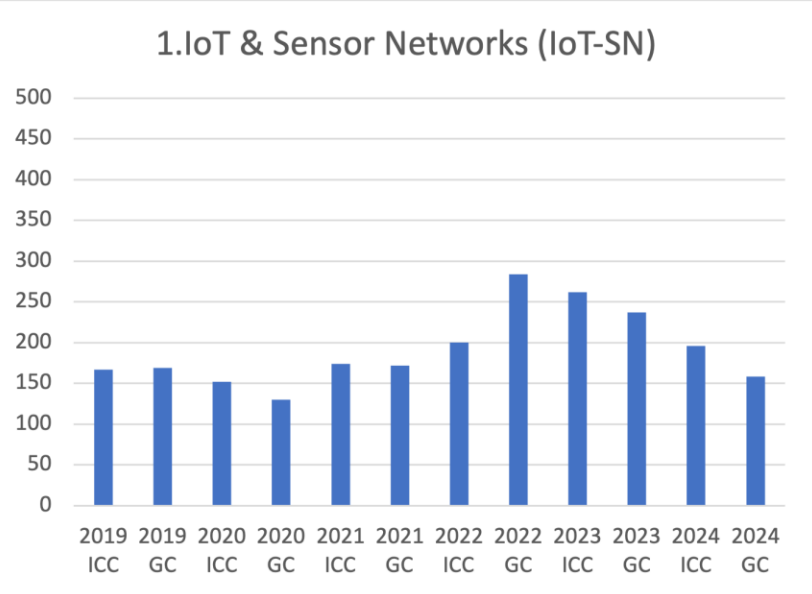
2. GC/ICC Technical Symposia Sponsorship

- **IoT & Sensor Networks (IoT-SN)**
- **Mobile and Wireless Networks (MWN)**
- **Next-Generation Networking & Internet(NGNI)**
- **Wireless Communications Symposium(WC)**
  - ICC 2024: Denver, USA
  - GC 2024: Cape Town, South Africa
  - ICC 2025: Montreal, Canada
  - GC 2025: Taipei
  - ICC 2026 : Glasgow, Scotland
  - GC 2026: Macau, SAR
  - ICC 2027: Washington D.C., USA

Update on IoT-AHSN TC Activities

2. GC/ICC Technical Symposia Sponsorship




1.IoT & Sensor Networks (IoT-SN)
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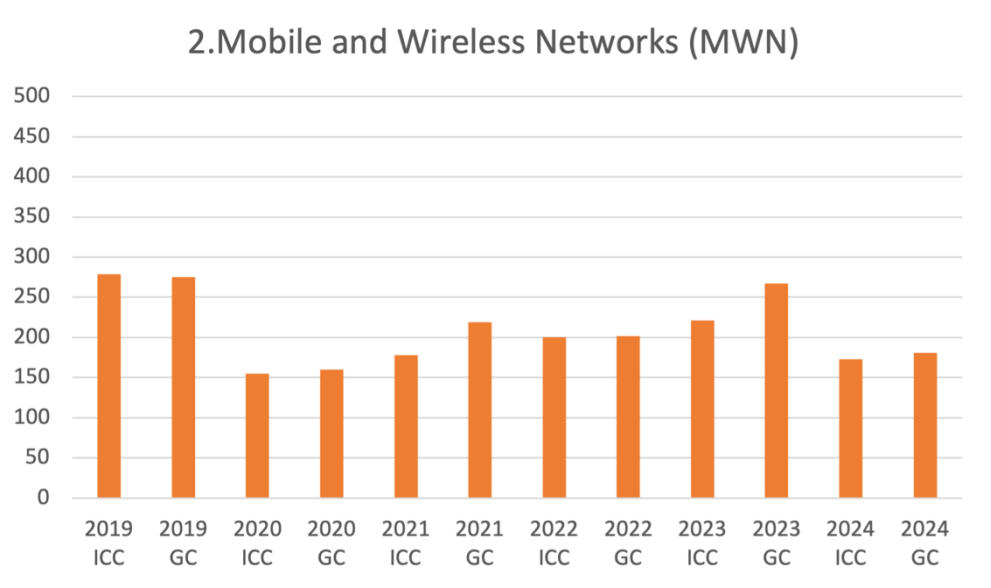
2.Mobile and Wireless Networks (MWN)
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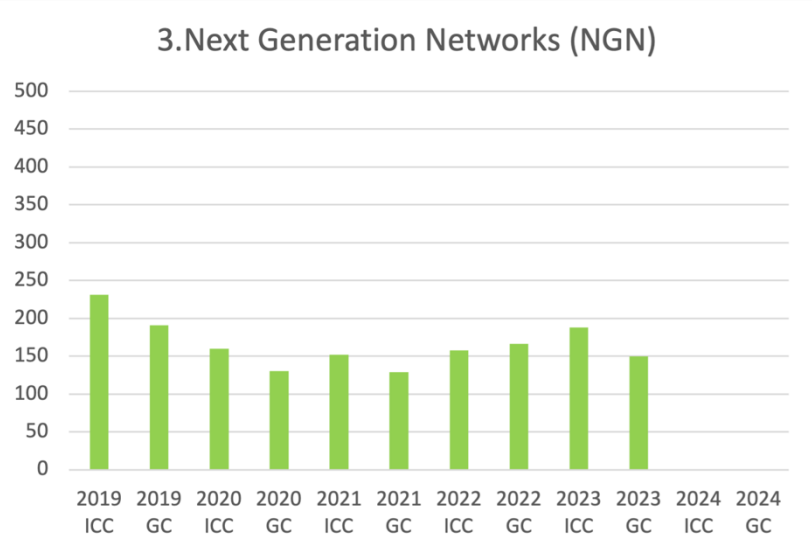
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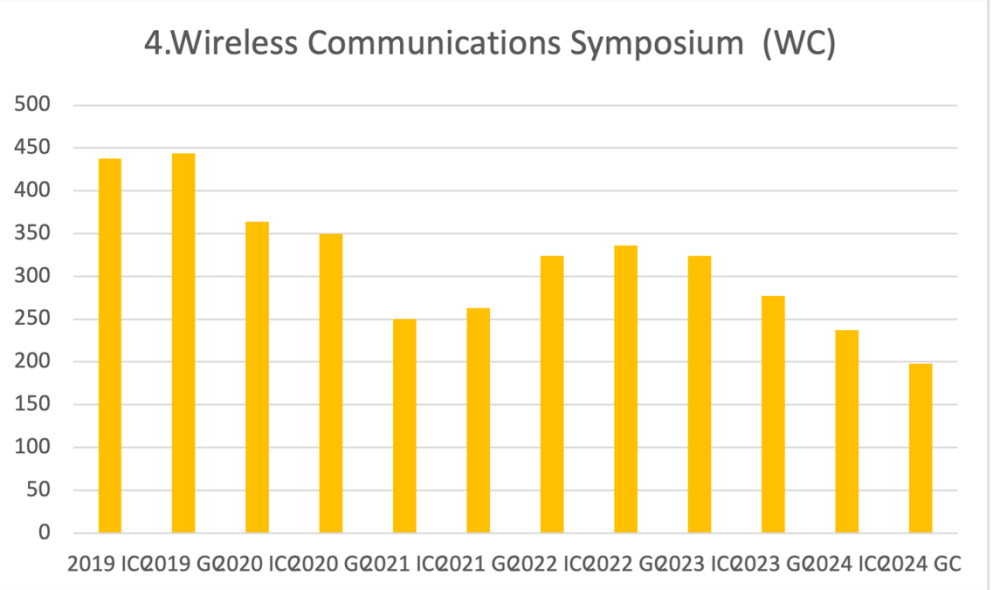
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2024 IC
2024 GC

IoT & Sensor Networks (IoT-AHSN)
IEEE ICC 2024

- **Co-Chairs**
  - *Mohamed Younis, University of Maryland Baltimore County*
  - *Howard Yang, Zhejing University*
  - *Ouns Bouachir, Zayed University*
  - *Bomin Mao, Northwestern Polytechnical University*
- **Statistics**
  - *Total number of submissions = 196*
  - *Total number of accepted papers = 74*
  - *Acceptance ratio = 37.8%*
  - *TPC members = 226*

Mobile and Wireless Networks (MWN)
IEEE ICC 2024

- **Co-Chairs**
  - *Mohammed Atiquzzaman, University of Oklahoma*
  - *Dajana Cassioli, University of L'Aquila*
  - *Weixiao Meng, Harbin Institute of Technology*
  - *Wen Sun, Northwestern Polytechnical University*
- **Statistics**
  - *Total number of submissions = 173*
  - *Total number of accepted papers = 69*
  - *Acceptance ratio = 39.9%*
  - *TPC members = 212*

Next-Generation Networking & Internet (NGNI)
IEEE ICC 2024

- **Co-Chairs**
  - *Roberto Rojas-Cessa, New Jersey Institute of Technology*
  - *Raffaele Bruno, Institute for Informatics and Telematics*
  - *Halima Elbiaze, UQAM University*
- **Statistics**
  - *Total number of submissions = TBD*
  - *Total number of accepted papers = TBD*
  - *Acceptance ratio = TBD*
  - *TPC members = TBD*

Wireless Communications Symposium (WC)
IEEE ICC 2024

- **Co-Chairs**
  - *Virginia Pilloni, University of Cagliari*
  - *Haibo Zhou, Nanjing University*
  - *Imran Shafique Ansari, University of Glasgow*
  - *Mark Flanagan, University College Dublin*
  - *Gaojie Chen, University of Surrey*
- **Statistics**
  - *Total number of submissions = 237*
  - *Total number of accepted papers = 94*
  - *Acceptance ratio = 39.7%*
  - *TPC members = 287*

IoT & Sensor Networks (IoT-AHSN)
IEEE GC 2024

- **Co-Chairs**
  - *Lin Cai, Illinois Institute of Technology, USA*
  - *Rodolfo Coutinho, Concordia University, Canada*
  - *Gang Yang, University of Electronic Science and Tech. of China, China*
  - *Noura Aljeri, Gulf University for Science and Technology, Kuwait*
- **Statistics**
  - *Total number of submissions = 158*
  - *Total number of accepted papers = 63*
  - *Acceptance ratio = 39%*

Mobile and Wireless Networks (MWN)
IEEE GC 2024

- **Co-Chairs**
  - *Shiwen Mao, Auburn University, USA*
  - *Shan Zhang, Beijing University of Aeronautics and Astronautics, China*
  - *Kaigui Bian, Peking University, China*
  - *Ioannis Krikidis, University of Cyprus, Cyprus*
- **Statistics**
  - *Total number of submissions = 181*
  - *Total number of accepted papers = TBD*
  - *Acceptance ratio = TBD*
  - *TPC members = 181*

Next-Generation Networking & Internet (NGNI)
IEEE GC 2024

- **Co-Chairs**
  - *Thiago Abreu, University of Paris-Est Creteil, France*
  - *Elias P. Duarte Jr., Federal University of Paraná, Brazil*
  - *Kaikai Chi, Zhejiang University of Technology, China*
- **Statistics**
  - *Total number of submissions = 98*
  - *Total number of accepted papers = TBD*
  - *Acceptance ratio = TBD*

Wireless Communications Symposium (WC)
IEEE GC 2024

- **Co-Chairs**
  - *Yuan Shen, Tsinghua University, China*
  - *Daniel Benevides da Costa, King Fahd University of Petroleum & Minerals (KFUPM)*
  - *Qiang Ye, Dalhousie University, Canada*
  - *Yang Wang, University of Science and Technology of China*
  - *Ahmed Eltawil, King Abdullah University of Science and Technology, Saudi Arabia*
- **Statistics**
  - *Total number of submissions = 198*
  - *Total number of accepted papers = TBD*
  - *Acceptance ratio = TBD*

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Update on TC activities

Nominations

Update on IoT-AHSN TC Activities

3. Nomination for Symposium Co-Chairs of ICC and GC

- Let us know if you are interested in participating in the future (contact IoT-AHSN TC officers)
- Nominations have been made up to ICC 2026 for:

Symposium Recommendation for 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)

Update on IoT-AHSN TC Activities

3. Nomination for Symposium Co-Chairs of ICC and GC

- Let us know if you are interested in participating in the future (contact IoT-AHSN TC officers)
- Nominations have been made up to GC 2025 for:

Symposium Recommendation for GC 2025

- **Bomin Mao (**Northwestern Polytechnical University, China)
- **Yang Wang** (University of Science and Technology of China)
- **Kaikai Chi** (Zhejiang University of Technology, China)

Update on IoT-AHSN TC Activities

4. Endorsement of IEEE Fellowship

- No endorsement request made
- Please contact us if you need endorsement

5. Nomination for ComSoc Distinguished Lecturers

- **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

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Update on TC activities

DLs

Update on IoT-AHSN TC Activities

DL/Invited Talks

- Damla Turgut, IEEE ComSoC Distinguis ing in Privacy-Aware Smart Environments," h 3, 2024
- Damla Turgut, Invited Talk on "Privacy on Wireless Personal Multimedia Communications (
- Damla Turgut, Invited Talk on "Bringin /AI in smart environments," Colorado State Univers
- Damla Turgut, Guest speaker at FSW W

Agenda

- Welcome and introduction
- Approval of the agenda
- Approval of the minutes of the Globecom 2023 IoT-AHSN TC meeting
- Introduction to the IoT-AHSN TC
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- Meeting adjournment

Update on TC activities

SIGs

Update on IoT-AHSN TC Activities

We have 5 SIGs, which have been presenting various activities:

SIG - **Machine Learning for Ad Hoc, Sensor and IoT Networks**
SIG - **IoT in Tactile Internet**
SIG - **Internet of Unmanned Aerial Networks**
SIG - **Industrial IoT Networks**
SIG - **Ubiquitous Intelligence for Internet of Vehicles**

If interested to join these SIG, please contact the IoT-AHSN TC Officers or SIG

SIG- Machine Learning for Ad Hoc, Sensor and IoT Networks

LinkedIn group: https://www.linkedin.com/groups/12464979/

- **SIG leadership:**
  - Chair: Dr. Lyes Khoukhi
  - Advisor: Dr. Damla Turgut

SIG- Machine Learning for Ad Hoc, Sensor and IoT Networks

- **Recent activities:**
  - 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- IoT in Tactile Internet

LinkedIn group: https://www.linkedin.com/groups/12477846/

- **SIG leadership:**
  - Chair: Dr. Liudong Xing
  - Co-chair: Dr. Nikolaos Pappas
  - Advisor: Dr. Soumaya Cherkaoui

SIG- IoT in Tactile Internet

- **Recent activities:**
  - 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- Internet of Unmanned Aerial Networks

LinkedIn group: https://www.linkedin.com/groups/12476723/

- **SIG leadership:**
  - Chair: Dr. Moayad Aloqaily
  - Advisor: Dr. Sidi-Mohamed Senouci

SIG- Internet of Unmanned Aerial Networks

Recent activities:

Special Issues:

- A. 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

- B. UAV Networks for Internet of Things
- Guest Editors: Tao Han, Ning Zhang, Mostafa M. Fouda, Xianfu Chen, F. Richard Yu

- C. 6G Technologies and Applications, IEEE VT Magazine
- Guest Editors: Anwer Al-Dulaimi, Harald Haas, Klaus David, Rose Hu

SIG- Industrial IoT Networks

LinkedIn group: https://www.linkedin.com/groups/12481021/

- **SIG leadership:**
  - Chair: Dr. Bernardi Pranggono
  - Advisor: Dr. Abdallah Shami

SIG- Industrial IoT Networks

- **Recent activities:**
  - 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

AHSN: SIG - Ubiquitous Intelligence for Internet of Vehicles

Chair: Dr. Qiang John Ye, University of Calgary, Canada

Co-chair: Dr. Ning Zhang, University of Windsor, Canada
Co-chair: Dr. Peng Yang, HUST, China
Co-chair: Dr. Haixia Peng, Xi'an Jiaotong University, China
Co-chair: Dr. Xiaoyu Wang, China Science & Technology Inc.
Co-chair: Dr. Huaqing Wu, University of Calgary, Canada

Advisor: Dr. Cheng Li, Simon Fraser University, Canada

SIG LinkedIn: https://www.linkedin.com/groups/12854089/

Recent Update

➢ 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)
  - **40+ submissions, 21 accepted**, May 2024 [Full-Day Program]
- IEEE ICCC Workshop on Digital Twins and Pervasive Intelligence Synergy in Next-Gen 6G Networks (DTPI-6G)
  - **12 submissions, 6 accepted**, Aug 2024 [Half-Day Program]
- IEEE GLOBECOM 2024, Workshop on Ubiquitous Network Intelligence for Next Generation Wireless Networks
  - **33 submissions** [WS-27: CFP]
- IEEE GLOBECOM 2024, Workshop on the Impact of Multi-modal Large Language Models on 6G and Beyond
  - **21 submissions** [WS-19: CFP]

Recent Update

➢ Seminars

- Organized Keynote Speeches in IEEE Workshops
  - ✓ 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.

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Future TC activities

IEEE ComSoc Student Competition

IEEE ComSoc Student Competition, for graduate and undergraduate students, launched by ComSoc in 2013.
The Competition rules and details, including the winners of the previous editions, are presented at: http://www.comsoc.org/communications-technology-changing-world

The theme of the competition is again *"Communications Technology Changing the World"*.

Since its first edition in 2013, I and Nelson have been the Chairs of the Student Competition Committee, which will select the winners.
I am now confirming the Committee members of the last edition, but also seeking new ones to refresh the Committee composition.

We wish to have **one representative nominated by each TC**, to cover not only all geographical areas but also all technical subjects.

Recent Update

➢ Future Plan

- Continue to organize workshop/conferences/journal SI
- Organize more webinars/seminars on IoV topics

Other Businesses

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

Next Meeting

Next IoT-AHSN TC meeting **in person** GC 24, Cape Town, South Africa.
See you then.

thank you
danke
謝謝
ngiyabonga
شكراً جزيلاً
teşekkür ederim
gracias
merci
obrigado
dziękuję
bedankt
go raibh maith agat
mochchakkeram
sukriya
kop khun krap
terima kasih
감사합니다
ありがとう
arigatô
dakujem
grazie
takk
tapadh leat
спасибо
Баярлалаа
рахмат
dank je
mersi
barka
welalin
tack
spas
kia ora
faafetai lava
vinaka
спасибі
blagodaram
misaotra
matondo
paldies
grazzi
mahalo
хвала
asante
manana
obrigada
tenki
murakoze
chokrane
mamnun
дякую
djiere dieuf
tau
akun
dankon
aciu
köszönöm
mauruuru
hvala
gràçie
bayarlalaa
enkosi
nanni
nandri
kiitos
dankie
dhanyavad
chnorakaloutioun
gratias ago
gràcies
sulpáy
taiku
sobodi
dēkuji
sagolun
mèsi
didi madloba
najis tuke
kam sah hamnida
rahmat
tanemirt
rahmet
diolch
dhanyavadagalu
shukriya
merce
мерси
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xièxie
ευχαριστώ
তোমাকে ধন্যবাদ

Thank you