

# **IEEE Communications Society (ComSoc) Internet of Things, Ad Hoc and Sensor Networks Technical Committee (IoT-AHSN TC)**

**IoT-AHSN TC Meeting at IEEE GC 2023**

**Chair: Jiajia Liu  
Vice Chair: Sharief Oteafy  
Secretary: Shuai Han**

**Wednesday December 4, 2023, 8:00 am - 10:00am  
Kuala Lumpur, Malaysia**

# Agenda

- Welcome and introduction
- Approval of the agenda and the minutes of the last IoT-AHSN TC meeting
- IoT-AHSN Technical Achievement and Recognition Award
- IoT-AHSN TC officer election
- Introduction to the IoT-AHSN TC
- IoT-AHSN TC Newsletters
- Standard Liaison Report
- Industry Seminar series
- Update on IoT-AHSN TC activities in conferences/symposia
- Update on IoT SIG activities
- Other businesses
- Next IoT-AHSN TC meeting
- Meeting adjournment

# Minutes of IoT-AHSN TC meeting post ICC'23 (posted on IoT-AHSN TC website)

- Welcome and introduction
- Approval of the agenda and the minutes of the last IoT-AHSN TC meeting
- IoT-AHSN Exceptional Service and Contribution Award
- Introduction to the IoT-AHSN TC
- IoT-AHSN TC Newsletters
- Standard Liaison Report
- Industry Seminar series
- Update on IoT-AHSN TC activities in conferences/symposia
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# IoT-AHSN Technical Achievement and Recognition Award

**This 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 IoT-AHSN TC activities in which R&D takes place in areas related to IoT, 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.**

# **2023 IoT-AHSN Technical Achievement and Recognition Award**

**The call for nomination was circulated at the TC mailing list on September 7, 2023.**

**By the nomination deadline (October 9, 2023), we received a total of 4 nominations.**

**The committee reviewed and ranked the candidates based on the award selection criteria on the "significant contributions and impacts to the technological advancement of the Internet of things, ad hoc and sensor networks" and the candidates' involvement in TC activities.**

# 2023 IoT-AHSN Technical Achievement and Recognition Award

## Awards Subcommittee (2022-2023)



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)

# 2023 IoT-AHSN Technical Achievement and Recognition Award

**Prof. Mohammed  
Atiquzzaman  
University of Oklahoma**

For his achievements and contributions to architectures and networking protocols of IoT and ad hoc and sensor networks.



# The IoT-AHSN Technical Committee 2023 Officer Election

## *The IoT-AHSN N&E Committee*

**Jiajia Liu (Chair)**

(Northwestern Polytechnical University, Current TC Chair)

**Soumaya Cherkaoui**

(Polytechnique Montreal, Past TC Chair )

**Cheng Li**

(Simon Fraser University, Past TC Chair)



# The IoT-AHSN Technical Committee 2023 Officer Election Procedure

<b>November 1</b>	N&E committee setup
<b>November 5</b>	Nomination open
<b>November 15</b>	Deadline of Nomination (Three nominations received)
<b>November 27</b>	The list of Voting Members announced
<b>December 4</b>	Election at the TC meeting
<b>December 15</b>	Election results available to be approved by ComSoc TEA Council
<b>December</b>	Approved election results announced.

# The IoT-AHSN Technical Committee 2023 Officer Election Voting Member

- TC voting member: must be IEEE ComSoc or Affiliate member or student member or a sister society member. Any active member of the technical committee has the right of voting for officers.
- Active member:
  - to have attended (be physically present, or be present by teleconference or via electronic means for virtual TC meetings) at least two of the last five scheduled Technical Committee on IoT, Ad Hoc and Sensor Networks (IoT-AHSN TC) meetings;
  - to have contributed substantially to the TC activities. For instance, to have served in last two years as a TPC Chair or Co-Chair, Advisory Board (or equivalent) for conferences sponsored by Technical Committee on IoT, Ad Hoc and Sensor Networks (IoT-AHSN TC), namely, IEEE Globecom Symposia, IEEE ICC Symposia, SECON, and have attended at least one of the last five scheduled Technical Committee on IoT, Ad Hoc and Sensor Networks (IoT-AHSN TC) meetings.

# **The IoT-AHSN Technical Committee 2023 Officer Election Position and Candidates**

## **Chair Candidate**

Dr. Sharief Oteafy (DePaul University, USA)

## **Vice Chair Candidate**

Dr. Shuai Han (Harbin Institute of Technology, China)

## **Secretary Candidates**

Dr. Rodolfo Coutinho (Concordia University, Canada)

Dr. Bomin Mao (Northwestern Polytechnical University, China)

Dr. Qiang Ye (Dalhousie University, Canada)

# The IoT-AHSN Technical Committee

## Secretary Candidate Bio –Rodolfo Coutinho

**Dr. Coutinho** has been an active member in the IoT and Ad Hoc Sensor Networks TC and community. Over the last six years, he has been attending and participating in the IoT-AHSN TC meetings held during GLOBECOM and ICC conferences. He has been serving as the Standard Liaison to the IoT-AHSN TC since 2020. In this position, he has been participating in the IEEE ComSoc Standards Development Board (COM/SDB) and IEEE ComSoc Standardization Programs Development Board (COM/SPDB) meetings and reporting to the IoT-AHSN TC community the discussions and latest achievements from the COM/SDB and COM/SPDB Boards.

Dr. Coutinho has conducted extensive high-quality research work in IoT. He has proposed game-changing routing protocols for efficient data collection in the challenging scenarios of the Internet of Underwater Things. He also has proposed and designed algorithms and orchestrators for the management of computation and networking resources in IoT video analytics and mobile IoT augmented reality systems. The result of his research work has been published in top-tier journals and conferences related to the IoT, networking, and communication fields, such as IEEE GLOBECOM, IEEE ICC, IEEE PIMRC, IEEE ISCC, ACM MSWiM, IEEE Transactions on Wireless Communications, IEEE Transactions on Sustainable Computing, IEEE Transactions on Computers, IEEE Transactions on Industrial Informatics, IEEE Communications Magazine, IEEE Networks, IEEE IoT Magazine, Elsevier Ad Hoc Networks, and Computer Networks.

Dr. Coutinho has also been serving the IoT-AHSN community through his leadership work on conference organization. He has served as TPC Co-Chair for the IEEE PIMRC 2023 – Networking and MAC Track, ACM MobiWac 2023, ACM Q2SWinet 2021, IEEE ICC 2020 – Ad Hoc and Sensor Networks Symposium, and ACM DIVANet 2018. He is serving as TPC Co-Chair for the IEEE GLOBECOM 2024 – IoT and Ad Hoc Networks Symposium. Dr. Coutinho has also served as a TPC member for many IEEE GLOBECOM and IEEE ICC symposia. He is serving as Associate Editor for the Ad Hoc Networks Journal and he also has/is led/leading special issues on the topics of IoT, 5G, B5G, and smart and sustainable mobility in the Ad Hoc Networks Journal, the Journal of Parallel and Distributed Computing, and Computer Communications Journal.

# The IoT-AHSN Technical Committee

## Secretary Candidate Bio –Bomin Mao

**Bomin Mao** (S'15, M'19) is currently a full professor with the School of Cybersecurity, Northwestern Polytechnical University, China. He was an associate professor and an assistant professor at the Graduate School of Information Sciences (GSIS), Tohoku University, Japan, from 2020 to 2021 and from 2019 to 2020, respectively. His research interests are involving satellite-served IoT, satellite network routing, vehicular networks, and edge computing. He has published more than 40 papers in peer-reviewed journals including IEEE Journal of Selected Areas in Communications (IEEE JSAC), IEEE Internet of Things Journal (IEEE IoTJ), IEEE Transactions on Vehicular Technology (IEEE TVT), IEEE Transactions on Industrial Informatics (IEEE TII), and so on. He has been an active member in IoT-AHSN TC since 2020. He has served as an associate editor of IEEE IoTJ and IEEE TVT, TPC chair of IEEE HPSR 2022, and symposium co-chair of IEEE ICCT 2023. He is also serving as the IoT&Sensor Network Symposia co-chair of IEEE ICC 2024. His awards include several Best Paper Awards from IEEE Global Communications Conference in 2017 (IEEE GLOBECOM 2017), IEEE GLOBECOM 2018, IEEE International Conference on Network Infrastructure and Digital Content in 2018 (IEEE IC-NIDC 2018), IEEE International Conference on Communications in 2023 (IEEE ICC 2023), and the 32nd Wireless and Optical Communications Conference (WOCC 2023). He was a recipient of the prestigious 2020 Niwa Yasujiro Outstanding Paper Award, 2020 IEEE ComSoc Asia Pacific Outstanding Paper Award, and 2020 IEEE Computer Society Tokyo/Japan Joint Local Chapters Young Author Award.

# The IoT-AHSN Technical Committee

## Secretary Candidate Bio –Qiang Ye

**Qiang Ye** is a Professor in the Faculty of Computer Science at Dalhousie University, Canada. His current research interests lie in the area of communication networks in general. Specifically, he is interested in Wireless Networks, Internet of Things (IoT), Network Security, and Machine Learning.

He has published a series of papers in top publication venues such as IEEE/ACM Transactions on Networking (TON), IEEE Transactions on Wireless Communications (TWC), and IEEE Transactions on Parallel and Distributed Systems (TPDS). He has served as the editor and chair/member of technical program committee for a variety of different tier-1 journals and conferences, including IEEE Transactions on Multimedia (TMM) and IEEE Global Communications Conference (GLOBECOM). In terms of the service to the IoT-AHSN community, he has played the role of Editor-in-Chief for the IEEE IoT-AHSN TC newsletter since 2021.

He received a Ph.D. in Computing Science from the University of Alberta in 2007. His M. Engr. and B. Engr. in Computer Science and Technology are from Harbin Institute of Technology, P.R. China. He is a Senior Member of IEEE.

# The IoT-AHSN Technical Committee 2023 Officer Election Ballot

The list of valid nominees - Secretary position- IoT-AHSN TC2023

#	Name	Ballot
1	Dr. Rodolfo Coutinho (Concordia University, Canada)	
2	Dr. Bomin Mao (Northwestern Polytechnical University, China)	
3	Dr. Qiang Ye (Dalhousie University, Canada)	

Please vote for only ONE candidate by  $\surd$ .

In the case of two candidates for the same position, election will be by a simple majority. In case there are more than two candidates, election will consist of a series of elections. At each stage of voting, the candidate gathering the fewest votes will be eliminated. This process will continue until only two candidates remain.

# 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.

- **Area 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.

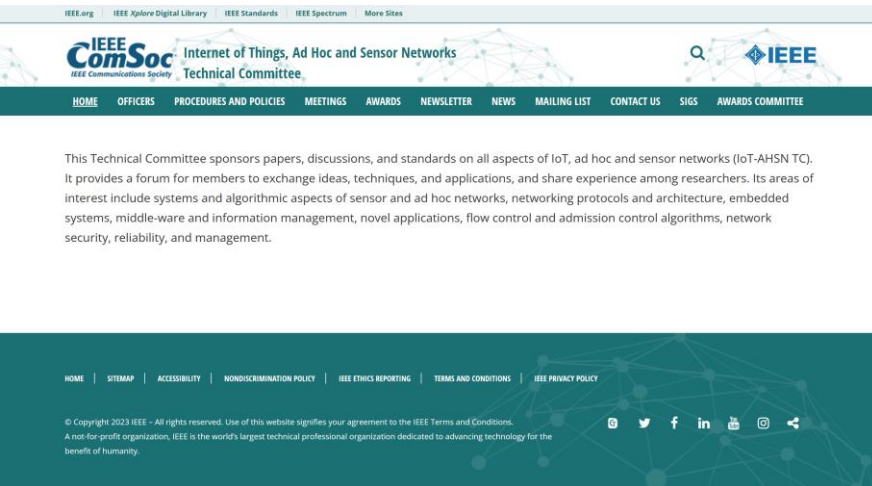


# Introduction to the IoT-AHSN TC

- **Website**

The website of the TC:

<https://ahsn.committees.comsoc.org>



- **Mailing List**

The mailing list of the TC:

[ahsn@COMSOC.ORG](mailto:ahsn@COMSOC.ORG)



# Introduction to the IoT-AHSN TC

- **Membership of IoT-AHSN TC**
  - Open to all **ComSoc** members
  - Need to **subscribe to IoT-AHSN TC mailing list**
  - Note: **signing presence** doesn't make you a member
  - **Currently 747+** subscribers(increase steadily)
- **Active Membership of IoT-AHSN TC**
  - Need to attend at least **2 of 5 prior IoT-AHSN TC meetings.**
  - It is important to register **your name and email address** when you attend.

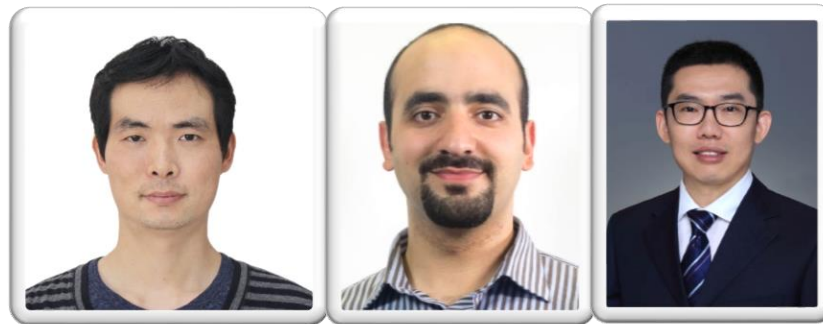
# Introduction to the IoT-AHSN TC

- **Mailing List**

- Please add your name to the subscription at **ahsn@COMSOC.ORG**
- **This is important to verify your ComSoc Membership**

**Write your information in the form:  
your name + affiliation + email**

# TC Officers (2022-2023)



- **TC Chair: Jiajia Liu, [liujiajia@nwpu.edu.cn](mailto:liujiajia@nwpu.edu.cn)**
- **TC Vice Chair: Sharief Oteafy, [soteafy@depaul.edu](mailto:soteafy@depaul.edu)**
- **TC Secretary: Shuai Han, [hanshuai@hit.edu.cn](mailto:hanshuai@hit.edu.cn)**

# IoT-AHSN TC Newsletter



- **Newsletter Editor-In Chief:**
  - **Qiang Ye (Dalhousie University, Canada)** [qye@cs.dal.ca](mailto:qye@cs.dal.ca)  
Appointed as EiC of the IoT-AHSN Newsletter for the 2021-2023 term.
- **Newsletter Co-Editors:**
  - **Moez Esseghir (University of Technology of Troyes, France)**
  - **Lu Lv (Xidian University, China)**

# IoT-AHSN TC Newsletter- Current Newsletter

- Version 18 is now posted on our web page:

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

- 1 articles published in Vol. 1, No. 18

Graham LeBlanc and Jason Gu, “*A Control Continuum for Tetherless Underwater Vehicles*”

# IoT-AHSN TC Newsletter- Call for Contribution

- Theme of issue: Generative AI for Internet of Things
- The topics of interest include, but are not limited to:
  - Generative Models for Anomaly Detection in IoT
  - Energy-Efficient Generative Models for IoT
  - Dynamic Adaptation of Generative Models for IoT
  - Generative Models for Predictive Maintenance in IoT
  - Adversarial Attacks and Defenses in Generative AI for IoT
  - Generative Models for Synthetic IoT Data Generation
- **Deadline: 01/31/2024**
- To be published by Jun. 2024

**Contact:** Qiang Ye, Moez Esseghir, or Lu Lv

# Standards Liaison Report



**Standard Liaison: Rodolfo Coutinho**  
**Concordia University**  
**(Canada)**  
**(2022-2023)**  
**[rodolfo.coutinho@concordia.ca](mailto:rodolfo.coutinho@concordia.ca)**



# 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
- P1945: Standard for Internet of Things (IoT) Computing Edge Computing on Unmanned Aircraft Systems-PART 1 General Requirements

# Industry Seminar Series



**Industry Liaison: Anwar Haque**  
**Western University (Canada)**  
**(2023-2024)**  
[ahaque32@uwo.ca](mailto:ahaque32@uwo.ca)

# Industry Seminar Series

## • Activities

### **Industry Speaker Series #4**

Speaker: Dr. Clifford Liem, R&D Manager at Nokia (Network Services Division) Canada

Date: Wed 26 April 2023 @ 9am EST

Talk Title: “The Explosion into Industry 4.0 - Private Wireless and Connected Industries”

### **Industry Speaker Series #3**

Speaker: Dr. Javan Erfanian, Distinguished Member of Technical Staff at Bell Canada

Date: Monday 18 October 2021 @ 12 pm EST

Talk Title: “What Next?! 5G & Beyond!”

### **Industry Speaker Series #2**

Speaker: Dr. Jianglei Ma, Chief Scientist at Huawei Canada R&D Center

Date: Monday 27 Sept 2021 @ 12 pm EST

Talk Title: Network Sensing for 6G - **Part II**

### **Industry Speaker Series #1**

Speaker: Dr. Jianglei Ma, Chief Scientist at Huawei Canada R&D Center

Date: Monday 26 June 2021 @ 12 pm EST

Talk Title: Network Sensing for 6G - **Part I**

# Industry Seminar Series

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# 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 2023 the TC endorsed

- **CCCI 2023**
- **ICCSN2023**
- **IWCMC 2023**
- **FCN2023**

# CCCI 2023

## General Chair

- Mohammad S. Obaidat, Univ. of Jordan, Jordan
- Zhaolong Ning, Chongqing Univ. of Posts and Telecommunications, China

## Assistant General Chair

- Yu Guo, Univ. of Science and Technology Beijing, China

## Technical Program Committee

- Jalel Ben Othman, CentraleSupélec & Univ. of Sorbonne Paris Nord, France
- Stefano Giordano, Univ. of Pisa, Italy
- Pascal Lorenz, Univ. of Haute Alsace, France
- Joel Rodrigues, Senac Fac of Ceará, Brazil

## Papers statistics

- Accepted papers: 24
- Acceptance ratio: 44.4 %



# ICCSN 2023

## General Chair

- Xingwei Wang, Northeastern University, China
- Jalel Ben-Othman, University of Paris 13, France

## General Co-Chair

- Yuanguo Bi, Northeastern University, China
- Xiushuang Yi, Northeastern University, China

## Technical Program Committee Chairs

- Yong Cui, Tsinghua University, China
- Guangjie Han, Hohai University, China
- Jie Jia, Northeastern University, China
- Jiajia Liu, Northwestern Polytechnical University, China
- Nobuo Funabiki, Okayama University, Japan

## Papers statistics

- Accepted papers: 85
- Acceptance ratio: 58%

# IWCMC 2023

## General Chair

- Dr. Bo Rong, Communications Research Centre, Canada

## General Co-Chair

- Dr. Mohamed Essaaidi, ENSIAS, Morocco
- Dr. Jiajia Liu, Northwestern Polytechnical University, China

## Executive Chairs

- Dr. Xiao Wang, University of Alabama, USA
- Dr. Bechir Hamdaoui, Oregon State University, USA

## Executive Vice Chairs:

- Dr. Shuai Han, Harbin Institute of Technology, China
- Dr. Abdellatif Kobbane, Mohammed V University in Rabat, Morocco

## Technical Program Committee Chairs

- Dr. Mohamed Adel Serhani, UAE University, UAE
- Dr. Jalel Ben-Othman, University of Paris 13, France

## Papers statistics

- Accepted papers: 303
- Acceptance rate: 39%

# FCN2023

## General Chair

- Xiaohu You, Southeast University, Purple Mountain Laboratories, China

## TPC Chair

- Jun Zheng, Southeast University, China

## TPC Co-Chairs

- Nirwan Ansari, New Jersey Institute of Technology, USA
- Peter Chong, Auckland University of Technology, New Zealand
- Pascal Lorenz, University of Haute-Alsace, France

## Invited Talk Co-Chairs

- Shiwen Mao, Auburn University, USA
- Zhifeng Zhao, Zhejiang Laboratories, China

## Workshop Chairs:

- Cheng Li, Memorial University, Canada
- Jalel Ben-Othman, Centrale Supélec, France

## Papers statistics

- Accepted papers: 47
- Acceptance rate: 54%

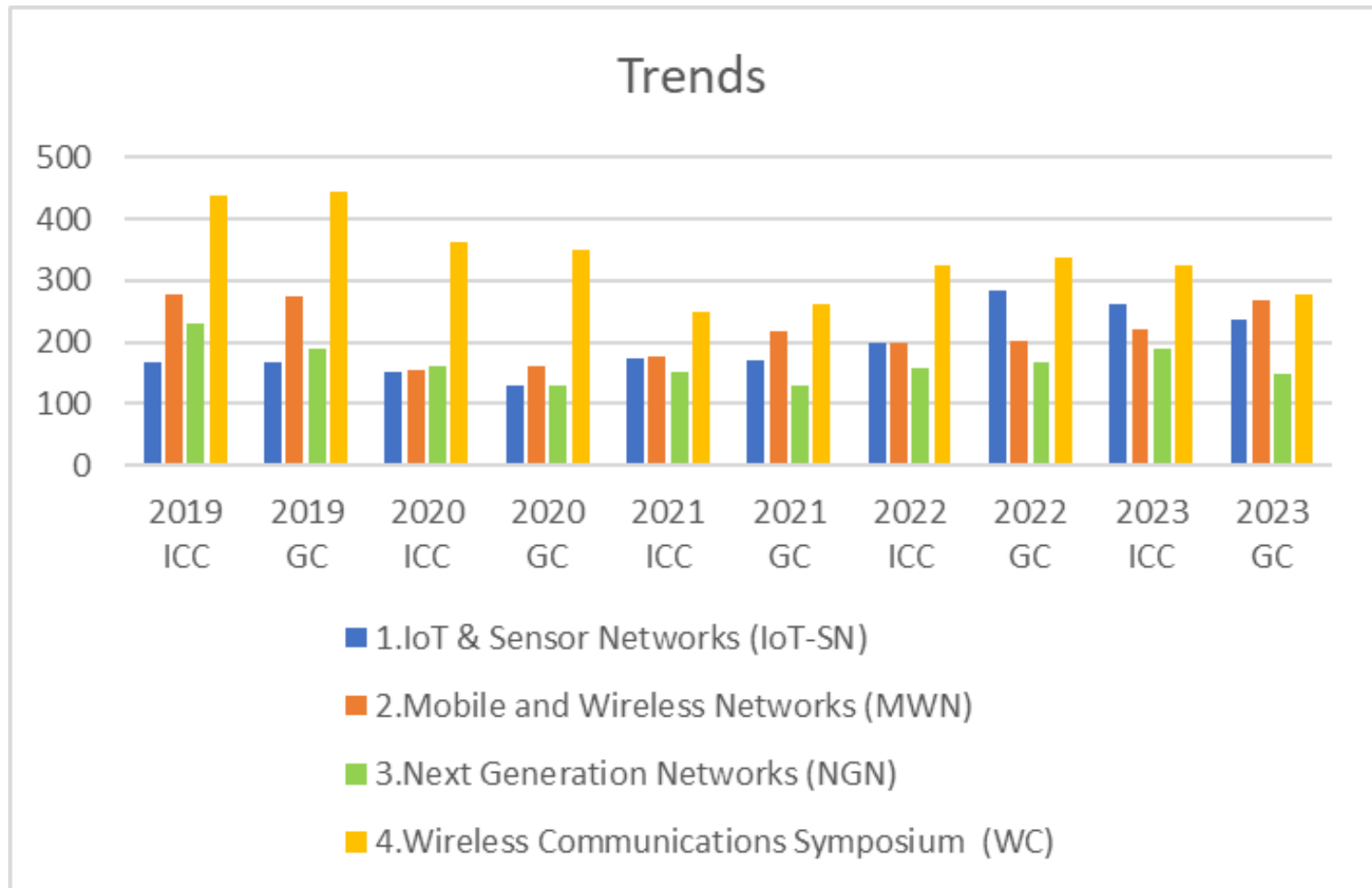
# Update on IoT-AHSN TC Activities

## 2. GC/ICC Technical Symposia Sponsorship

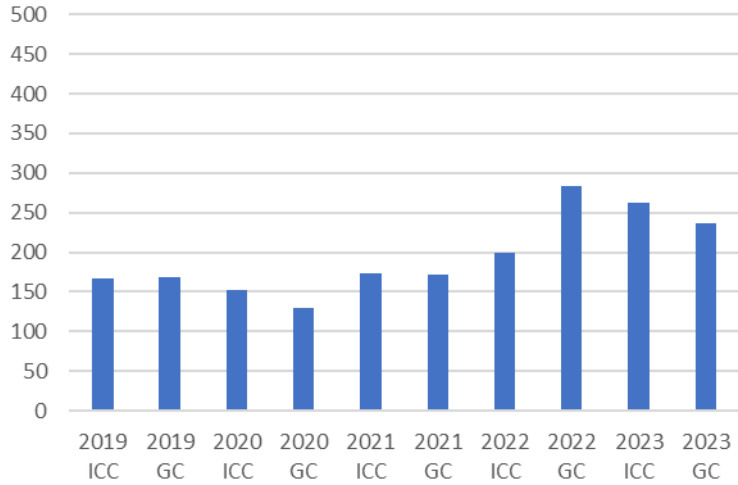
- ❑ **IoT & Sensor Networks (IoT-SN)**
- ❑ **Mobile and Wireless Networks (MWN)**
- ❑ **Next-Generation Networking & Internet(NGNI)**
- ❑ **Wireless Communications Symposium(WC)**
  - GC 2023: Kuala Lumpur, Malaysia
  - ICC 2024: Denver, USA
  - GC 2024: Cape Town, South Africa
  - ICC 2025: Montreal, Canada
  - GC 2025: Taipei
  - ICC 2026: Glasgow, Scotland
  - GC 2026: Macau, SAR
  - ICC 2027: Washington D.C., USA

# Update on IoT-AHSN TC Activities

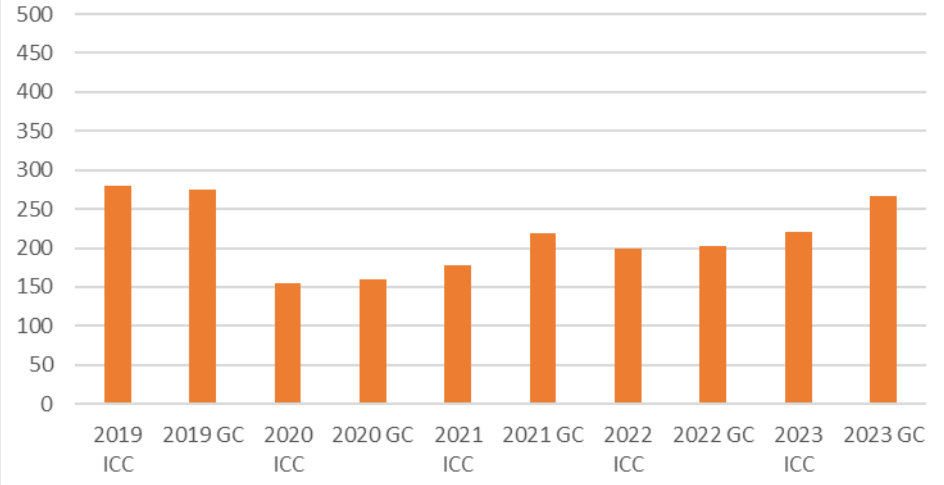
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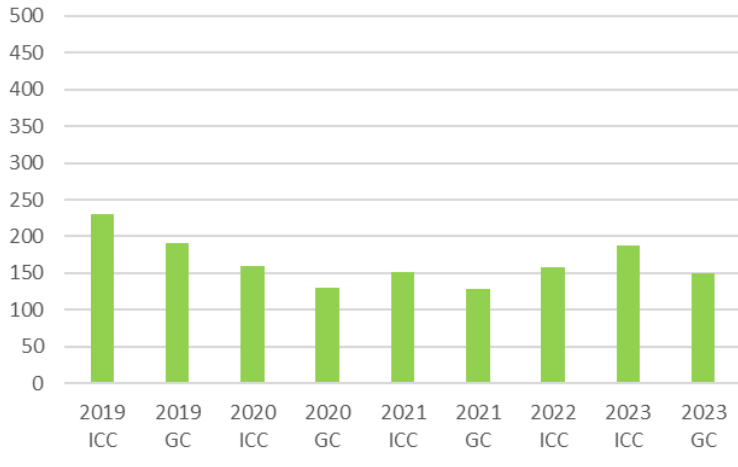
### 1. IoT & Sensor Networks (IoT-SN)



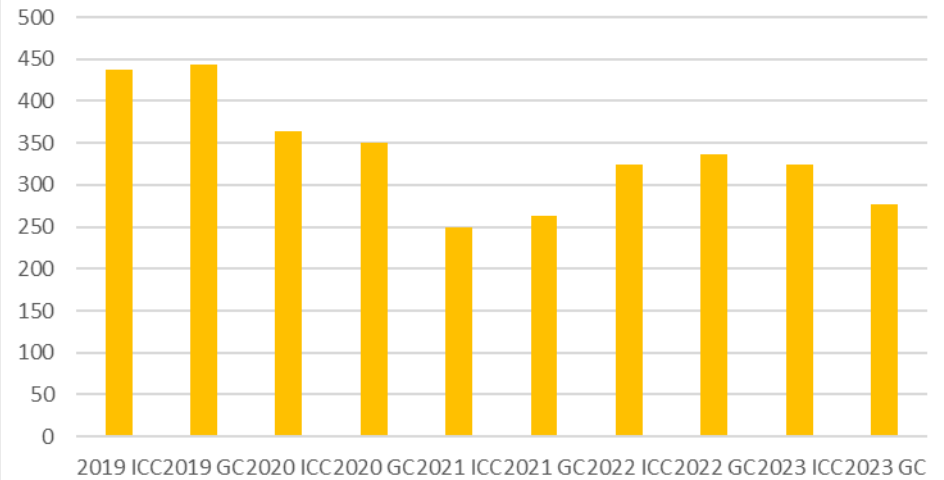
### 2. Mobile and Wireless Networks (MWN)



### 3. Next Generation Networks (NGN)



### 4. Wireless Communications Symposium (WC)



# IoT & Sensor Networks (IoT-AHSN)

## IEEE GC 2023

### ◆ Co-Chairs

- ◆ *Nizar Zorba, Qatar University, Qatar*
- ◆ *Baoxian Zhang, Univ. of Chinese Academy of Sciences, PRC*
- ◆ *Selma Boumerdassi, Conservatoire Nat. Des Arts et Metiers, France*
- ◆ *Krishna Moorthy Sivalingam, Indian Institute of Technology Madras, India*

### ◆ Statistics

- ◆ *Total number of submissions = 237*
- ◆ *Total number of accepted papers = 94*
- ◆ *Acceptance ratio = 39.66%*
- ◆ *TPC members = 189*

# Mobile and Wireless Networks (MWN)

## IEEE GC 2023

### ◆ Co-Chairs

- ◆ *Abdallah Shami, The University of Western Ontario, Canada*
- ◆ *Abdel-Elhamid Taha,,Alfaisal University, Saudi Arabia*
- ◆ *Miao Pan,,University of Houston, USA*
- ◆ *Zehui Xiong, Singapore Univ. of Tech. & Design, Singapore*

### ◆ Statistics

- ◆ *Total number of submissions = 267*
- ◆ *Total number of accepted papers = 105*
- ◆ *Acceptance ratio = 39.3*
- ◆ *TPC members = 242*



# Next-Generation Networking & Internet(NGNI)

## IEEE GC 2023

### ◆ Co-Chairs

- ◆ *Aggeliki Sgora, Ionian University, Greece*
- ◆ *Ahmed Refaey Hussein, University of Guelph, Canada*
- ◆ *Sami Souihi, Paris-Est Créteil Univ. / LiSSi Lab, France*

### ◆ Statistics

- ◆ *Total number of submissions = 150*
- ◆ *Total number of accepted papers = 56*
- ◆ *Acceptance ratio = 37.3*

# Wireless Communications Symposium(WC)

## IEEE GC 2023

### ◆ Co-Chairs

- ◆ *Valeria Loscri, INRIA Lille, France*
- ◆ *Chris Anderson, US Naval Academy, USA*
- ◆ *Giovanni Geraci, Univ. Pompeu Fabra (UPF), Barcelona*
- ◆ *Moayad Aloqaily, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), UAE*
- ◆ *Angela Yingjun Zhang, CUHK, Hong Kong*

### ◆ Statistics

- ◆ *Total number of submissions = 277*
- ◆ *Total number of accepted papers = 110*
- ◆ *Acceptance ratio = 39.7%*
- ◆ *TPC members = 621*

# IoT & Sensor Networks (IoT-AHSN)

## IEEE ICC 2024

### ◆ Co-Chairs

- ◆ *Mohamed Younis, University of Maryland Baltimore County*
- ◆ *Howard Yang, Zhejiang University*
- ◆ *Ouns Bouachir, Zayed University*
- ◆ *Bomin Mao, Northwestern Polytechnical University*

### ◆ Statistics

- ◆ *Total number of submissions = 184*
- ◆ *Total number of accepted papers = TBD*
- ◆ *Acceptance ratio = TBD*
- ◆ *TPC members = 225*

# 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 = TBD*
- ◆ *Acceptance ratio = TBD*
- ◆ *TPC members = 228*

# 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 = TBD*
- ◆ *Acceptance ratio = TBD*
- ◆ *TPC members = 287*

# 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 2025 for:

### 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)

# Update on IoT-AHSN TC Activities

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- Let us know if you are interested in participating in the future (contact IoT-AHSN TC officers)
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### 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>

# 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:**

- May 19th, by Z. Abouelhouda (Professor at Yncrea Ouest)
  - Title: Intelligent vision for securing IoT 5G
- December 15th, by A.Tougou (Professor at Dublin City University)
  - Title: New models for resources allocation in NGN
- 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".
- Application is ongoing for managing and chairing the international conference on New Technologies, Mobility and Security (NTMS2024).
- 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 Cherkaou

# SIG- IoT in Tactile Internet

- **Recent activities:**
  - Organized two Webinar Talks:
    - Title: On the Utility of Gradient Compression in Distributed Training Systems
      - Time: 9am, June 13, 2023 (Eastern Time)
      - Speaker: Dr. Hongyi Wang, Carnegie Mellon University, USA
      - Number of attendees: 23
    - Title: Service Reliability of Wireless Telecommunication Networks – for the Purpose of Scientific Maintenance
      - Time: 8am, November 21, 2023 (Eastern Time)
      - Speaker: Dr. Yan-Fu Li, Tsinghua University, China
      - Number of attendees: 72
  - Organized an IEEE IoT Journal Special Issue on "Prognostics and Health Management using the Internet of Things"

# 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:**
  - Keynotes and Panels
    - Keynote on “ZERO-TOUCH NETWORK SECURITY: USE-CASE DRIVEN”, Abdullah Shami, IEEE BCCA, Kuwait, 2023.
  - Conferences and Workshops
    - IEEE ICC 2024, WORKSHOP ON AERIAL INTERNET OF THINGS (A-IOT '24): <https://icc2024.ieee-icc.org/workshop/ws-22-workshop-aerial-internet-things-iot-24>
    - IEEE ICC 2024, WORKSHOP ON EMERGING TECHNOLOGIES IN AERIAL AND SPACE NETWORKS: <https://icc2024.ieee-icc.org/workshop/ws-02-workshop-emerging-technologies-aerial-and-space-networks#>
  - Special Issues:
    - IEEE JSAC, Special Issue: Zero Trust for Next-Generation Networking, 2024-2025.



# SIG- Industrial IoT Networks

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

- **SIG leadership:**

- Chair: Dr. Bernardi Pranggono
- Advisor: Dr. Abdallah Shami

- **Recent activities:**

- 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: 18th March 2024
- Webinar on The Industrial Internet of Things Networking by David Lou, Ph.D., Chief Researcher, Huawei Technologies, June 2023.
- Webinar on Pervasive Artificial Intelligence for IIoT Systems by Mohsen Guizani, Professor and IEEE Fellow, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), UAE, May 2023.

# SIG- Industrial IoT Networks

- **Recent activities:**

- 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.
- Invited Speaker, "Securing the Frontier of Healthcare: The Critical Imperative of IoMT Security," The 8th International Conference on Science and Technology (ICST 2023), Nov 2023.
- Invited Speaker, "AI-Based Intrusion Detection for the Internet of Medical Things," The 6th International Conference on Science and Engineering (ICSE 2023), Aug 2023.
- Co-Chair for the ICPS Architectures and Engineering Technical Track, 7th IEEE International Conference on Industrial Cyber Physical System (ICPS 2024), May 2024.

# SIG- Ubiquitous Intelligence for Internet of Vehicles

- **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

# SIG- Ubiquitous Intelligence for Internet of Vehicles

- **Recent activities:**
  - **Journal Special Issues (SI)**
    - Special Issue on "Ubiquitous Intelligence for Internet of Vehicles" [[CFP](#)], IEEE Internet of Things Magazine [[Guest Editorial](#)]
      - ✓ **28** submissions received
      - ✓ **7** high-quality research articles accepted
    - IEEE Network, SI on "6G Non-Terrestrial Networks for Intelligent IoT Services" [[CFP](#)]
  - **Conference/Workshop organizations**
    - IEEE INFOCOM Workshop on Pervasive Network Intelligence for 6G Networks (PerAI-6G) (30+ submissions), May 2023 [[CFP](#)]
    - 31st Biennial Symposium on Communications (BSC 2023), July 2023 [[CFP](#)]
    - IEEE ICC 2023 Workshop on Edge Intelligence for 6G Networks, August 2023 (25+ submissions) [[CFP](#)].

# SIG- Ubiquitous Intelligence for Internet of Vehicles

- **Recent activities:**
  - **Seminars**
    - Organized keynote speeches in workshops (ICCC 2023)
      - ✓ “To Find the Supremacy of Machine Learning in Wireless Network Optimization” - Prof. Yu Cheng (Illinois Institute of Technology, USA)
      - ✓ “Over-the-Air Federated Learning with Massive MIMO Using Antenna Selection”
        - Prof. Ping Wang (York University, Canada)
  - **Ongoing Activities**
    - IEEE INFOCOM 2024 Workshop on Pervasive Network Intelligence for 6G Networks (PerAI-6G), May 2024, Vancouver, Canada.
  - **Future Plan**
    - Continue to organize workshop/conferences/journal SI
    - Organize webinars on IoV topics

# Other Businesses

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

# Next Meeting

Next IoT-AHSN TC meeting at ICC 24, Denver, USA.  
See you then.



IEEE Global Communications Conference  
4-8 December 2023 // Kuala Lumpur, Malaysia



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