



#### **Table of Contents**

Housekeeping	2
Agenda	2
Welcoming Remarks	3
CommSoft Team	3
Approval of Minutes	4
Website Considerations	4
Updates on CommSoft TC e-Letter	4
Awards Subcommittee (2023-2024)	5
2024 Awards Seasons	5
Technical Achievement Award (2024)	6
Standards Liaison Update	7
ComSoc Student Competition Update	8
Updates on Special Interest Groups	8
CommSoft TC SIGs	9
ML and AI for Networking	9
Special issues:	10
Conference activities:	
Security in Communications Software	10
SIG on Big Data and Communication Software	11
Blockchains and Applications	12
Performance Evaluation	13
Vehicular Communications	14
NFV and SDN technologies	14
Sponsored Symposia and Conferences	
Undates on DLP Nominations	20



# Housekeeping

- Thank you for being here!
- Please provide your name, affiliation(s) and contact email in the link below
  - o https://bit.ly/commsoftGC24
- [If you are yet to subscribe to the mailing list, we will use the contact you provide through the chat to add you to the mailing list.]
- To avoid reverb and accidentals, we ask that you kindly keep your mics on mute unless you are interested in speaking.
- Motions, seconds, approvals can be expressed by speaking or "thumbs up", but we ask that you also note them through the chat.

# Agenda

- Review and approval of the agenda
- Welcome remarks and general updates
- Approval of ICC'24 meeting minutes
- Website considerations
- Liaisons updates:
  - o e-Letter
  - o Standards
  - o ComSoc Student Competition
- Awards Subcommittee Updates
- Updates on SIGs(if any)



# Welcoming Remarks

- CommSoft TC mission
  - o "... mission of this committee is to advance the state of the art in communications software and its various aspects and applications. It serves as the major forum for discussion among communications software professionals in both the communications and computer industries."
- Presence
  - o <a href="https://commsoft.committees.comsoc.org/">https://commsoft.committees.comsoc.org/</a>
- Members
  - o 465 on the mailing list
  - o 49 active members (as of GC'23)
    - Please encourage membership and engagement
    - Work to involve industrial reps and expand diversity
    - Also, consider working with your local ComSoc Chapter

### CommSoft Team

- Executives for current term (2023-2024)
  - o Chair Abd-Elhamid M. Taha
  - Vice Chair Hassine Moungla
  - Secretary Moayad Aloqaily
- Special Interests Group Coordinator
  - Marwane Ayaida
- Newsletter EiC
  - o Aiman Erbad
- Standards Liaison
  - Mohannad Alharthi
- Student Competition Program
  - Hyunbum Kim
- Website Administrators
  - o Safa Otoum



o Ouns Bouachir

## **Approval of Minutes**



	Location	Date and Time	Files
	ICC 2024	June 9, 2024, 11:00 – 12:30 (MDT)	presentation   minutes   active
	Globecom 2023	December 6, 2023, 14:00-15:00 (MYT)	presentation   minutes
	ICC 2023 (via Zoom)	May 11, 2023, 12:00-13:00 (EDT)	presentation   minutes
ı			

- Minutes posted on the TC website shortly after the meeting
- Access to prior meeting minutes and presentations is also possible through the website

### Website Considerations

- Website Administrators
  - Safa Otoum
  - Ouns Bouachir
- Website maintained and with all TC news and updates posted (minutes, agendas, symposium information, ...)
- Open for suggestion on usability and ease of access

# Updates on CommSoft TC e-Letter

- TC's E-Letter's can be found at the following link
- https://commsoft.committees.comsoc.org/eletter/
- We've been successfully generating an e-Letter twice a year
- Your engagement and contributions are necessary to the e-Letter's success!



# Awards Subcommittee (2023-2024)

- The following members have kindly agreed to serve on the TC's Awards Subcommittee for 2023-2024.
  - o Jalel Ben-Othman (as chair)
  - o Cheng Li (member)
  - Melike Erol-Kantarci (member)
  - Adlen Ksentini (member)
  - o Hassine Moungla (member)
  - o Eirini Eleni Tsiropoulou (member).
- Approved by TCB on October 25, 2023.

### 2024 Awards Seasons

- Four Awards
  - Technical Achievement Award: Recognizes outstanding technical contributions in Communications Software. Presented annually for remarkable advancements, innovations, or breakthroughs in software systems and technologies for communication networks.
  - Student Achievement Award: This award recognizes exceptional contributions by students to the field of Communications Software. Eligible contributions must have been made during the nominee's time as a student. Support evidence includes, but is not limited to, a thesis, publications, patents, or other forms of rigorous output that demonstrate the nominee's achievements in the previous year.
  - CommSoft TC Service Award: Honors exemplary service to the Communications Software Technical Committee. Presented annually to members who have demonstrated exceptional dedication, leadership, and contributions to the growth and success of the CommSoft TC.
  - Test-of-Time Paper Award: Recognizes influential research in Communications Software. Presented annually to authors of a selected paper published at least five years before the nomination, and in venues endorsed or overseen by the CommSoft TC, which has demonstrated enduring significance

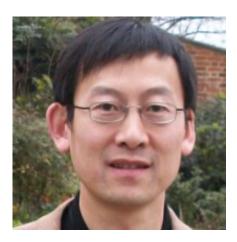


and impact on the theory or practice of software technologies in communication networks.

- Coll for Nominations emailed to TC on October 1, 2024
  - Details on eligibility, nomination package and nomination process to detailed in awards announcement.

Deadline: November 15, 2024

### Technical Achievement Award (2024)



**Prof. Kun Yang**University of Essex



**Prof. Hyunbum Kim**Incheon National University



#### Citation

For technical achievements in the advancement of softwarized radio resource management.



Citation

For technical achievements in virtualized emotives and softwarized UAV surveillance networks.



### Student Achievement Award (2024)







#### Citation

For distinguished and innovative contributions to the area of Networked Digital Twins and exemplary commitment to promoting diversity in STEM.

# Standards Liaison Update

Mohannad Alharthi (CommSoft Liaison to ComSoc Standardizations Board)

- Attended and followed COM/SDB meetings
- ComSoc Standards Development Board (COM/SDB) <a href="https://comsdb.standards.comsoc.org">https://comsdb.standards.comsoc.org</a> supports standardization activities pertaining to ComSoc technical fields.
- TC members are encouraged to find and reach out to a working group of interest to contribute https://comsdb.standards.comsoc.org/working-groups/
- Funding opportunities for standards-related activities:
  - ComSoc TEA (Technical and Educational Activities) council (contact: mehmet.ulema@manhattan.edu)
  - The TAB Committee on Standards (TCoS): <a href="https://ta.ieee.org/operations/standards-activities">https://ta.ieee.org/operations/standards-activities</a>



# ComSoc Student Competition Update

- Liaison: Hyunbum Kim
  - Proctored and served as ambassador, selection committee
- IEEE ComSoc Student Competition
  - Led by Prof. Stefano Bregni
  - o 73 projects were submitted (The submission number is new record!)
  - Those submissions were evaluated by selection committee
  - o https://www.comsoc.org/membership/ieee-comsoc-student-competition

### **IEEE ComSoc Student Competition**



The Student Competition 2023 is here! Dedicated to the future leaders in communications and networking, IEEE ComSoc holds this annual student competition with the goal of encouraging communications engineering students to expand their knowledge, test and showcase new skills, and inspire innovation. The winning student (or student team) can earn up to US\$2,000. The team leader or individual that wins first prize will be invited to receive the prize at IEEE GLOBECOM 2023.

# Updates on Special Interest Groups

Marwane Ayaida (SIGs Coordinator)

- The VP on Technical Committee confirmed the need that each TC has SIGs
- More precisely, TCB P&Ps states "Special Interest Groups (SIGs) help the TC foster
  the scientific and technological development in topical emerging technologies within
  the scope of the TC. SIGs may be created to promote activities in well-established
  technologies."



## CommSoft TC SIGs

- Special Interest Group on "ML and AI for Networking"
  - o Lead: Dr. Melike Erol-Kantarci (Melike.erolkantarci@uottawa.ca)
- Special Interest Group on "Security in Communications Software"
  - o Lead: Dr. Safa Otoum (Safa.Otoum@zu.ac.ae)
- Special Interest Group on "Big Data and Communication software"
  - o Lead: Dr. Hassine Moungla (hassine.moungla@parisdescartes.fr)
- Special Interest Group on "Blockchains and Applications"
  - o Lead: Dr. Moayad Aloqaily (<u>maloqaily@xanalytics.ca</u>)
- Special Interest Group on "Performances Evaluation"
  - o Lead: Prof. Abdellatif Kobbane (abdellatif.kobbane@um5.ac.ma)
- Special Interest Group on "Communication software for Vehicular AdHoc Networks"
  - o Lead: Prof. Hacene Fouchal (<u>Hacene.Fouchal@univ-reims.fr</u>)
- Special Interest Group on "NFV and SDN technologies"
  - o Lead: Prof. Sudip Misra (<a href="mailto:smisra.editor@gmail.com">smisra.editor@gmail.com</a>)

# ML and AI for Networking

### Melike Erol-Kantarci (Lead)

- Industry whitepaper published by Ericsson: K. Johansson, C. Stuart, Melike Erol-Kantarci,
   "AI value in RAN: Actionable Insights," June 2024
  - O [Online]: https://www.ericsson.com/en/reports-and-papers/further-insights/ai-in-ran

#### Talks:

- Keynote on "The role of Generative AI and Multimodal Data in the Next Generation Wireless Networks," Symposium of 6G Communications, 15th International Conference on ICT Convergence, Korea, October 2024.
- Keynote on "Towards an AI-native 6G Is G for Generative?," IEEE ICC, Denver, June 2024.



- Panelist for Ericsson Imagine Live Spain, "AI for Telcos in practise" Madrid, November 2024.
- Panelist for "Paving the AI-Native Way in B5G and 6G?" IEEE World Forum IoT, WIE Forum, November 2024.
- Panelist for "Is the Penetration of AI in Our Sector, an Ally or an Adversary for Equality and Diversity?" IEEE Women in Communications Engineering (WICE), June 2024.

#### Special issues:

Special Issue on "6G local area networks" (IEEE Wireless Communications Magazine) – open for paper submission

Special Issue on "AI-native Radio Access Network (RAN)" (IEEE Communications Standards Magazine) – open for paper submission

#### Conference activities:

- IEEE ICC'25 Workshops co-chair workshops accepting paper submissions
- IEEE PIMRC'25 Track co-chair
- IEEE IoT World Forum 2024 Keynotes and Tutorials co-chair
- General co-chair for IEEE Workshop on Transformative Results on Autonomous Vehicles for Reliable Services in the Air and on Land (TRAVERSAL) – in conj. with IEEE IoT World Forum 2024

Talks, special issues, conferences, and symposiums attracted large number of participants from the TC.

# Security in Communications Software

### Safa Otoum (Lead)

#### Conferences

- o iMeta 2024
  - Held between 26–29 November 2024 Dubai, UAE
  - Keynote: Berick Cook, *Title*: Autonomous Intelligent Reinforcement
     Interpreted Symbolism (AIRIS): Beyond Reinforcement Learning
- o FLLM:
  - Held between 26–29 November 2024 Dubai, UAE



Keynote: Samson Lasaulce, Title: LLMs, optimization, and game theory







# SIG on Big Data and Communication Software

Head: Hassine Moungla

#### List of Invited Seminar Talks in 2024 hosted at Université Paris Cité

- "Intent-Based Management for Next-Generation Networks: an LLM-centric Approach") / Professor Adlen Ksentini – Eurecom, Université Paris Cité, December 2024.
- "6G Challenges: IA and DATA communication", **Prof. Abdella Battou, NIST, USA**, Mar 2025, hybrid, Université Paris Cité(hybrid).
- "Advanced Strategies and Technologies, Including AI, for Optimizing Optical Communication Networks", Professor Wahab Almuhtadi, Coordinator, BIT-Optical Systems and Sensors (Algonquin College - Carleton University), Université Paris Cité, Paris, Feb 2025, (hybrid)

#### Conferences & workshop

• IEEE GC 2024 and IEEE ICC 2025, Track Chair.

#### Journals Open Call

- IEEE Communications Magazine Call for Papers AI for Communications and Communications for AI, Publication, Manuscript Submission Deadline 30 September 2024
- IEEE Communications Magazine Call for Papers Artificial Intelligence and Data



Science for Communications, Periodically.

- IEEE Wireless Communications Call for Papers, Special Issue on Wireless Communications Over Near-field Channels, December 2024
- IEEE Networking letter and TNSM SI in discussion, September 2024

# Blockchains and Applications

### Moayad Aloqaily (Lead)

- Conferences
  - **IEEE BCCA 2024** 
    - 26–29 November, 2024 Dubai, UAE
    - Keynoters: Davor Svetinovic,
    - Samson Lasaulce,
    - Albert Zomaya, and Berick Cook
  - **IEEE ICBC 2025** 
    - 2–6 June 2025 Pisa, Italy
    - Paper/Poster Submission

Deadline: 23 December 2024

Reviews Released to Authors: 14 February 2025













### Performance Evaluation

### Abdellatif Kobbane (Lead)

#### **Invited talk**

- Keynote: "AI-enabled Resource Management for Next-Generation Networks," the 4th International Workshop on IoT & Emerging technologies, October 31, 2024 at Sousse, Tunisia.
- Keynote: "AI-enabled Resource Management for Next-Generation Networks," the 16th International Conference on Communication Software and Networks (ICCSN 2024), October 19, 2024 at Ningbo, China.

#### The 12th International Conference on Wireless Networks and

#### **Mobile Communications**

25-27 November 2025 // Arab Open University, Riyadh, Saudi Arabia

Paper Submissions: 01 June 2025

- Keynote: "Optimizing Resources Management in Next Generation Networks Through AI," PEMWN 2024, Septembre 25, 2024 at ENSA-Ibn Zohr University.
- Keynote: "AI-enabled Resource Management for SDN-Mobile slicing" IEEE 6G Summit, UNET 2024, The International Conference on Ubiquitous Networking 26-28 June 2024 // Marrakesh, Morocco.

#### **Upcoming**

- Winter School on GPT Meets Game Theory at ENSIAS, Mohammed V University,
   Morocco from 23 to 28 december, 2024.
- WINCOM 2025, Conference at Arab Open University, Riyadh, Saudi Arabia, 25-27
   November, 2025.



### Vehicular Communications

### Hacène Fouchal (Lead)

#### **Special issues:**

 Guest Editorial Special Issue on Future Trends and Transition in Connected and Autonomous Transportation With Artificial Intelligence and Robotics published in IEEE Transactions on Automation Science and Engineering (21,3), 2024.

#### **Conference activities:**

 TPC co-chair (with S. Boumerdassi) of the conference of Machine Learning for Networking (MLN '2024) in Reims, November 2024 with 4 keynote speakers active in the TC (Jalel Ben-Othman, Abbes Amira, Shiwen Mao, Gamal EL-Ghazali).

#### **Scientific projects:**

• Starting in September 2024 a new European project SCALE on managing real deployment of intelligent Transportation Systems over Austria, Italy, Spain and France.

# NFV and SDN technologies

### Sudip Misra (Lead)

Sudip Misra, Arijit Roy and Ayan Mondal conducted the Eighth Edition of the Webinar
on Next Generation IoT on August 26, 2024. Professor Long Le, IEEE Fellow, University
of Quebec; Professor Min Dong, IEEE Fellow, Ontario Tech University; and Professor
Aggelos Bletsas, IEEE Fellow, Rutgers University, delivered talks at the webinar.

Link: <a href="https://ieee-webinar.github.io/sdn\_nfv/">https://ieee-webinar.github.io/sdn\_nfv/</a>





#### Webinar on Next Generation IoT



(Eighth Edition)

IEEE Communication Society
Technical Committee on Communications Software: Special Interest Group on "NFV and SDN Technologies"

Date: August 26, 2024
Time: 7:00 PM- 9:00 PM, Indian Time (IST)

- For **Dr. Ayan Mondal**, the manuscript entitled "A Primitive-Based Machine Learning Framework for the Network Data-plane" is accepted at the IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS) 2024.
- **Dr. Ayan Mondal** has been elected Faculty Counselor for IEEE Student Branch Chapter, IIT Indore.
- Prof. Sudip Misra has been engaged in the following activities
  - Associate Editor, ACM Distributed Ledger Technologies: Research and Practice (2024-Present).
  - Coordinator & Instructor, "Hands-on Introduction to Internet of Things (IoT) with Machine Learning (ML)", Short-term course in Department of Continuing Education & Technology, IIT Kharagpur, Jan 20-Jan 24, 2024.
  - Vice Chair, Standards Activities, Technical Committee on Green Communications and Computing (TCGCC), 2023-Present.



# SoftCOM: International Conference on Software, Telecommunications and Computer Networks

### Dinko Begušić and Pascal Lorenz

#### • Scope

 Agile Software Development, Communication Protocols, Telecommunications Services, Network Management, IoT, Mobile and Wireless Communications, Cloud Computing, 5G/B5G, AdHoc and Sensor networks, Vehicular Networks, Security and Privacy, AI/ML Applications, Green Networking, and more.

#### • SoftCOM'24

- o September 26-28, 2024, Bol (island of Brac), Croatia
- o <u>32st Instance!</u> "... promotion of innovation and collaboration in telecommunications and computer networks. Esteemed academics and industry leaders united for insightful sessions and keynotes, addressing cutting-edge topics like Green Networking, Security and Privacy, IoT, and Robotics. The event also featured interactive workshops and a dynamic business forum with special events for students, all in the picturesque Adriatic island ambiance. This conference not only celebrated technological advancements but also fostered a vibrant community eager to shape the future of ICT."

#### • SoftCOM'25

- o September 18-20, 2024, Split, Croatia
- Deadline: June 2, 2025
   Calling on support for program committee members, and for submissions.





# ISNCC: International Symposium on Networks,

## Computers and Communications (https://www.isncc-conf.org/)

### Tarek Bejaoui

#### Scope

O Satellite Communications and Space Internet, Deep Space Exploration and Long-Distance Communication, AI & ML, IoE and Smart Cities, Industry 4.0 and the Factory of the Future, Data Science and Big Data Systems Engineering, 5G exploitation and 6G Vision, Trust, Security and Privacy, Cloud, Computing, Networking and Storage, Wireless and Mobile Networks, Antenna Systems, Propagation and RF Design, Signal Processing and Communication System Theory.

#### • ISNCC'23

- October 23-26, 2023, Doha, Qatar
- o Accepted papers: 190 (Acceptance rate: 47 %) from 45 countries
- The exciting Technical Program included: 02 Tutorials / 06 Keynote Talks / 31 research Technical Sessions / 01 Industry Session / 01 Panel including Stakeholders from Industry and Academia.

#### • ISNCC'24

- October 22-25, 2024, Washington DC, USA
- o Deadline: June 30, 2024
- o Accepted papers: 131 (Acceptance rate: 46 %) from 43 countries
- o The Technical Program included: 05 Keynote Talks / 22 research Technical Sessions

#### • ISNCC'25

- o October, 2025, Paris, France
- o Deadline: TBD





### Tarek Bejaoui

#### • Scope

O Industry 4.0 & The connected Factory, Smart Cities and Internet of Everything, Smart Healthcare Systems, Big Data Analytics and Machine Learning, Edge, Fog and Cloud Computing for Internet of Things, Next Generation Networks and CPS, Security and Privacy for Smart IoT and CPS, Cyber Security for Critical Infrastructure and Industrial Applications, 5G and beyond for Industrial Applications, Communication technologies for Smart grids and Energy management

#### • SmartNets'24

- o May 28-30, 2024, Harrisonburg Viginia, USA
- o Accepted papers : 91 (Acceptance rate: 46 %) from 27 countries
- The Technical Program included: 03 Keynote Talks / 18 research Technical Sessions /
   10 half day workshop including 05 talks from Industry

#### • SmartNets'25

- o April 28 May 01, 2025, Doha, Qatar
- o First Submission Deadline: December 22, 2024



# MedComNet: Mediterranean Communication and Computer Networking Conference (<a href="https://www.medcomnet.org/">https://www.medcomnet.org/</a>)

### Daniele Giusto, Matteo Anedda and Claudio Marche

#### • Scope

- Networking for future applications: Edge, fog, and cloud computing, Internet of Things,
   Vehicular networks, Networking for the metaverse and multiverse, Quantum
   Networking, Digital Twins.
- Networks at large: Beyond 5G networks, Edge AI, Network security and privacy,
   Network management, measurement and analysis and Edge-Cloud Computing.
- Physical and MAC: MIMO-based networking, Satellite networks, Software-Defined Radios and Optical networks
- Techniques for advanced networking: Network coding for 5G, Software-Defined Networking, Network virtualization and Network Security

#### MedComNet 2024

- June 11-13, 2024, Nizza, France
- Theme focused on "Networking in the AI Era". The aim was to explore and discuss the essential research steps required to develop next-generation networks capable of orchestrating, sharing, processing, and explaining AI.
- The Technical Program included: 1 Tutorials / 2 Keynote Talks / 7 research Technical
   Sessions
- o 21 Accepted papers, participants from 8 countries.

#### • MedComNet 2025

- o June 25-27, 2025, Cagliari, Italy
- o Deadline: February 24, 2025
- o Expected 30 accepted papers

Calling on support for program committee members, and for submissions.



#### **Updates on DLP Nominations**



Lecture Topics

Egypt

Term effective through 31 Dec 2024

- Machine Learning and Edge Intelligence: Key Enablers for Wireless and IoT
- · Edge Computing and Communications for Wireless and IoT
- Content Caching in Wireless and Mobile Networks
- Exploiting Mobile Users' Profiles: Proactive Caching and Opportunistic Social Networks
- · Green Wireless: Energy-efficiency and Harvesting in Wireless Networks

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Lecture Topics

Qatar

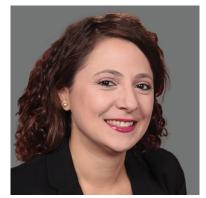
Term effective through 31 Dec 2025

- UAVs for Small Cell HetNets
- · Enabling Technologies for Crowd Sensing and Management

Nizar Zorba

#### Dr. Eirini Eleni Tsiropoulou Appointed N2Women Co-chair

- ComSoc's N2Women fosters diversity and inclusion, organizes events and connects women researchers in networking and communications
- Recently, Dr. Eirini Eleni Tsiropoulou, Associate Professor at ASU, appointed as Cochair of N2Women.
- Renowned for work in game theory, reinforcement learning, and resource management. Advocate for women in engineering.
- Inspired by mentorship, Dr. Tsiropoulou aims to empower the next generation of women in networking and communications.
- Learn more at <a href="https://n2women.comsoc.org/">https://n2women.comsoc.org/</a>



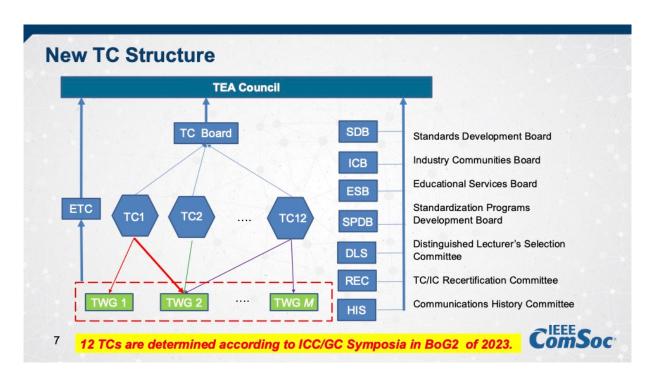
**Dr. Eirini Eleni Tsiropoulou** Arizona State University



#### **CommSoft TC Recertification**

- In response to the TCB's request on Aug 13, 2024, a completed TC Recertification
   Questionnaire was submitted on Sep 14, 2024
- We received a note on Nov 10, 2024, that CommSoft TC "successfully passed its recertification process"
- The TC's success is only possible through its members' contributions and achievements, as well as the sustained interest in the TC's scope and activity.
- "Whatever you're doing, keep doing it" if not more.
- Thank you!

#### **ComSoc TC Reorganization Update**





#### **Upcoming Elections**

#### **B.5.6.4.4.d** Nomination and Election Subcommittee

As per the Bylaws, the Technical Committee P&Ps shall specify the procedure to be followed for the election of Officers. A Nomination and Election (N&E) Subcommittee shall be formed to identify suitable candidates and oversee the election procedure. The Technical Committee P&Ps shall specify how the members of the Nomination and Election Subcommittee are appointed. All members of the Nomination and Election Subcommittee shall be Technical Committee members.

As approved by the TEA Council, the following requirements for elections are in force:

- 1. For each elected office, there must be at least two candidates on the ballot. If there are not enough nominations, the TC N&E Subcommittee shall identify additional candidates. Only TC voting members are eligible to run as elected TC Officer.
- 2. While it is strongly recommended that an election is held for all elected positions, TCs may also specify an alternative election process if they have difficulty identifying enough candidates. In this alternate process, only the Secretary is elected by the TC membership and the Secretary, at the end of their two-year term, shall serve two years as Vice Chair and then two years as Chair.
- 3. Elected Officers shall not serve for more than six consecutive years in any position within the same TC.
- 4. A TC Chair is ineligible to serve concurrently as Chair for more than one TC.

#### **Next Steps**

- Update the list of active members list, as per ComSoc's and TC's P&Ps
- Form the Nomination and Elections subcommittee
- The subcommittee will oversee
  - Making the call for nomination
  - Identifying eligible nominees
  - Calling and executing ballot
  - Reporting the outcome of the ballot
- In turn, the TC Chair will submit the report to the TCB for approval.
- We're hoping to be done before Christmas.
  - o However, allowing for contingencies, it might be early January.

#### **Other Business**

- How can we support you?
  - o Applications for sponsoring conferences or SI proposals.
  - Application for membership elevations
  - Application for IEEE Fellow



- o ComSoc Distinguished Lecture Program (DLP) applications
- o Highlighting your work
- Hosting webinars
- We rely on your support in ...
  - o Reaching out to industrial ComSoc members
  - o Increasing TC's diversity
  - o Publicizing the TC
  - o Supporting our flagship symposium
  - o Engaging your local chapter
- 1- the IEEE HONET 2024 Conference, Dec 3-5, 2024, UDST, QATAR as TPC-co Chair and Tutorial coordinator (https://honet-ict.org/).
- 2- the IEEE Smartnets 2025 Conference, April 29-1st May 2025, UDST, QATAR as TPC-co Chair. (https://smartnets.ieee.tn/).