



IEEE Communications Society Technical Committee on Smart Grid Communications (SGC)

Tuesday, 17th September, 2024 - 16:00 – 17:00 CET

Hybrid meeting

Agenda – TC SGC Meeting – Sept 2024

- ▶ Call to order
- ▶ Approval of the agenda
- ▶ Approval of previous meeting minutes (9th November 2023, available on the TC Official website: <https://sg.committees.comsoc.org/meeting/>)
- ▶ *TC structure and status*
- ▶ Reports on nominations, conferences and journals
- ▶ Report on SIGs activities
- ▶ Status of webinars organization
- ▶ Awards and nominations committee announcements
- ▶ Any other business
- ▶ Adjourn

TC structure and status



Mission statement

- ▶ Support the IEEE Smart Grid Initiative with particular focus on communications
- ▶ Promote ComSoc's position in the development and promotion of smart grid related technologies
- ▶ Ensure that ComSoc members play a decisive technological role in smart grid communications, control, and computing
- ▶ Website: <http://sg.committees.comsoc.org/>
- ▶ Mailing list: asgcc@COMSOC.ORG (moderated)

Officers 2024-25

- ▶ Chair:
 - Kun Yang, University of Essex, UK

- ▶ Vice Chairs:
 - György Dán, KTH, Sweden

- ▶ Secretary
 - Subhash Lakshminarayana, University of Warwick, UK

- ▶ Appointed officers (To be confirmed)
 - Industry Relations: Alberto Sendin, Iberdrola, Spain
 - ComSoc TC-PLC Liaison: Ralf Lehnert, TU Dresden, Germany
 - PES Liaison: Antonello Monti, RWTH Aachen University, Germany
 - ComSoc TC News Letter Editor: Subhash Lakshminarayana
 - Standards Liaison: ...
 - ComSoc Student Competition Program TC reps: Chris Develder

**Great thanks to the departing Chair,
Prof. Andrea Tonello, and his team.**



Member development

- ▶ 232 as of Dec. 2019 registered members
- ▶ 252 as of June 2020 - 259 as of January 2021 - 263 as of July 2021 - 265 as of November 2021
- ▶ 256 as of May 2022, 273 as Oct. 2022
- ▶ 265 as April 2023; 265 as November 2023
- ▶ **283 as 29 August 2024**

- ▶ To become a member, sign up the TCSGC mailing list at <https://comsoc-listserv.ieee.org/cgi-bin/wa?SUBED1=asgcc&A=1>
 - A **member** must be a Comsoc member
 - Non ComSoc members can contribute as **collaborators**
 - To become a **voting member**, attend at least two out of the last five TCSGC meetings
 - TCSGC meetings are held twice a year at IEEE ICC and IEEE SmartGridComm



Nominations, conferences and journals



Nominations and representatives at IEEE ICC/GC

- ▶ IEEE ICC 2024 SGC track: Subhash Lakshminarayana – **please report**
- ▶ IEEE Globecom 2024: Muhammad Ismail, Tennessee Tech University, USA
- ▶ IEEE ICC 2025 (Montreal, Canada) Kun Yang, University of Essex, UK
 - Deadline 11 Oct. 2024
 - TPC with experience in PLC can volunteer and contact Kun
- ▶ IEEE Globecom 2025 (Taipei) Safak Bahram, University of Strathclyde, UK

Call for Nominations announced regularly via the TCSGC mailing list
If you are interested in being nominated, please contact one of the officers



IEEE SmartGridComm 2024

- **Location:** Oslo, Norway. Date: 17-20 September 2024
- **Website:** <https://sgc2024.ieee-smartgridcomm.org/content/welcome-ieee-smartgridcomm-2024>
- **Organizers:** Yan Zhang, and co-chairs G. Chicco, A. Tonello
- It has been decided to merge ISPLC into SmartGridComm (starting in 2024).
 - There will be an additional Symposium on Power Line Communications
 - Potential to bring in more submissions, participants and industry patrons.
- **Paper submission:** 10 April, 2024
- **Submission proposals for:** Workshops, panels, tutorials



IEEE SmartGridComm 2025

- ▶ To be announced in IEEE SmartGridCom 2024?

Journals/Special issues – see also SIG reports

[IEEE Transactions on Smart Grid](#)

You may want to send information. The TC web site will also be updated.

Newsletter

Call for contributions to IEEE ComSoc Newsletter – email Subhash

- ▶ Highlight activities of the TC: a paragraph with details (photos/graphics would be better).
- ▶ A list of recent activities: each with a couple of sentences.
- ▶ Please refer to the previous newsletters for examples: <https://tc.boards.comsoc.org/tc-newsletter/>.

Report on SIGs activities

Special interest groups

- ▶ **1. SIG Communications and Networks to Enable the Smart Grid**
 - Chair: Dejan Vukobratovic - University of Novi Sad
 - Vice Chair: Gregor Verbic - University of Sidney
- ▶ **2. SIG Cyber Security and Privacy for the Smart Grid**
 - Chair: Lalitha Sankar - Arizona State University
 - Vice Chair: György Dan – KTH
 - Vice Chair: Jinsub Kim- Oregon State Univ.
- ▶ **3. SIG Energy Storage and Electric Vehicles**
 - Chair: Hamid Nazaripouya - UC Riverside
 - Vice chair: Phuong Nguyen - TU Eindhoven
- ▶ **4. AI and Computational Intelligence**
 - Chair: Yan Zhang - University of Oslo
 - Vice-chair: Melike Erol-Kantarci - University of Ottawa
 - Vice-chair: Damla Turgut - University of Central Florida

Can each SIG please report on your SIG's progress?

- ▶ **Past SIGs**
 - SIG Big Data Management and Analytics
 - SIG ICT-Enabled Transactive Energy and Grid Economics
 - SIG Energy Internet and Energy System Integration
 - SIG Active Distribution Grids and Microgrids
 - SIG Smart Metering, Demand Response and Dynamic Pricing

Webinars



Webinars

- ▶ Idea: organize a series of webinars.
- ▶ Objective: engage more our community and offer some value
- ▶ Focus on a specific topic and last 1-1.5 hours (*talk or panel*)
 - Access will be remote, free access, ComSoc staff can help in advertising them
- ▶ Webinars can be part of the SIG activities
 - 2 webinars/year. Each webinar will be organized by one of the four SIGs and cover a topic within the SIG scope
 - Engagement of industry would also be a good objective either by having a speaker from industry or seeking for industry colleagues to attend
- ▶ SIGs can send a brief proposal:
 - Title/topic of the webinar, Possible speaker/s, Date (indication of time period)

Delivered and in progress webinars

- ▶ Power Line Communications for Smart Grid, Residential and Industry Applications – October 6, 2023
 - Organizers: Jose Antonio Cortes Arrabal, Andrea Tonello
 - Speakers: Andrea Tonello, Cedric Lavenue, Marcos Martinez
 - Registered participants: 190
 - Attendees: about 100
 - Recorded video at: <https://plc.committees.comsoc.org/seminars/>

- ▶ Past proposal: Cybersecurity Challenges for Grid Edge, DER, and IBR.
 - Organizers: Jinsub Kim, Lalitha Sankar, György Dan (Fall 23)

TCSGC Awards



TCSGC awards

- ▶ Two awards
 - Outstanding Service Award
 - Technical Achievement Award
- ▶ Committee members (to be updated): Lutz Lampe (Chair), Chris Develder, Petar Popovski, Anna Scaglione, Christian Wietfeld
- ▶ Formed according to updated P&Ps: collected vote for approval and informed TEAC
- ▶ 2023 Awards
 - Prof. Melike Erol-Kantarci has been awarded the TCSGC Technical Achievement Award 2023. She is being recognized for her comprehensive contributions to the development of communication protocols for the smart grid.
- ▶ 2024 Awards: call for nomination will be sent out soon.

Any other business ?

Next meeting

- ▶ ICC 2025, 8–12 June 2025 // Montreal, Canada

Thank you!

