



IEEE Communications Society Technical Committee on Smart Grid Communications

Tuesday, November 30, 2021 - 17:00 – 18:30

Virtual meeting

Agenda – TC SGC Meeting – 30/11/2021

- ▶ Call to order
- ▶ Approval of the agenda
- ▶ Approval of previous meeting minutes (July 2021)
- ▶ Reports on nominations, conferences and journals
- ▶ Report on SIGs activities
- ▶ Report on approval of updated P&Ps
- ▶ Awards and nominations committee
- ▶ Election of new officers for the term 2022-23
- ▶ Any other business
- ▶ Adjourn

TC structure and status

Mission statement

- ▶ Support the IEEE Smart Grid Initiative
- ▶ 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/>

Officers 2020-21

- ▶ Chair:
 - **Andrea Tonello**, University of Klagenfurt, Austria

- ▶ Vice Chairs:
 - **Chris Develder**, Ghent University, Belgium
 - **Marco Levorato**, UC Irvine, USA
 - **Christian Wietfeld**, TU Dortmund, Germany

- ▶ Secretary
 - **Fang Yang**, Tsinghua University, China

- ▶ Appointed officers
 - Member relations: **Hongjian Sun**, Durham University, UK
 - Industry relations: **Cedric Lavenu**, EDF R&D, France

Member development

- ▶ 232 as of Dec. 2019 registered members
- ▶ 252 as of June 2020 registered members
- ▶ 259 as of January 2021 registered members
- ▶ 263 as of July 2021 registered members
- ▶ 265 as of November 2021 registered members (13% increase since Dec. 2019)
- ▶ 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

- ▶ IEEE ICC 2021 SGC Track: György Dán, KTH
 - 18 submitted papers, 7 accepted
- ▶ IEEE Globecom 2021 SGC Track : Ruilong Deng, Zhejiang University
 - Submitted papers 17, 7 accepted
- ▶ IEEE SmartGridComm 2021: Antonello Monti, Univ. of Aachen
 - Submitted papers 120, 71 accepted
- ▶ IEEE ICC 2022 SGC Track :
- ▶ - Submitted 21, Christian Wietfeld, TU Dortmund
- ▶ IEEE Globecom 2022 SGC Track : Chris Develder, Ghent Univ.
- ▶ IEEE ICC 2023 SGC Track : Dejan Vukobratovic, Univ. of Novi Sad (TBC)
- ▶ IEEE Globecom 2023: Nominations to be made

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 2021

- ▶ **Location:** Aachen, Germany
- ▶ **Dates:** 25-28 October 2021
- ▶ **Venue:** The event was hybrid. Location moved to the University so that it is possible to switch to fully virtual without additional costs
- ▶ **Organizers:** Antonello Monti, Ferdinanda Ponci, RWTH Aachen Univ.
- ▶ Submitted 120 papers. Accepted: 71
- ▶ Participants: 178
- ▶ 5 tutorials accepted (fully virtual)
- ▶ 2 industry workshops (fully virtual)
- ▶ 3 roundtables on Game Changer topics:
 - One of these as policy session in cooperation with IEEE European Public Policy Committee



IEEE SmartGridComm 2022

- **Location:** Singapore
- **Dates:** 25-28 October 2022
- **Venue:** The event will be hybrid. Physical portion will be in Singapore University of Technology and Design (SUTD) for cost saving and flexibility.
- **Organizers:** Sun Sumei (A*STAR), David Nicol (UIUC), Binbin Chen (SUTD).
- Same week as Singapore International Energy Week (SIEW)
<https://www.siew.gov.sg/>
- One week before IEEE PES ISGT Asia (also in Singapore)
- In addition to the main conference and co-located workshops, we would love to have: tutorials, demos / posters sessions, PhD forum, women in Smart Grids forum, dialogs with government & industry leaders
Warmest invitation to join the organizing team!
- Please email me at binbin_chen@sutd.edu.sg if you are interested in joining the organizing team or have any suggestions



Special issues

Current:

[IEEE Transactions on Green Communications and Networking – SI on Collaborative Intelligence for Green Internet of Things in the 6G Era](#)

Guest Editors: Celimuge Wu, Kok-Lim Alvin Yau, Zonghua Zhang, Damla Turgut, Shiwen Mao

Submission deadline: 10 December 2021

[Frontiers in Communications and Networks](#), has a section on Smart Grid Comms with specialty chief editor Editor Melike Erol- Kantarci

Past:

[MDPI Energies - SI on Power Line Communication \(PLC\) Evolution: New Challenges and Innovative Solutions](#)

- ▶ Guest Editors: Alberto Sendin, Andrea Tonello
– Submission deadline: 31 July 2021

[IEEE Network Magazine, SI on AI and 6G Convergence: an Energy-efficiency Perspective](#)

- ▶ Guest Editors: Y. Zhang, M. Erol-Kantarci, W. Sun, Y. Dai, J. Hoydis, M. C. Gursoy,
– Submission deadline: 15 April 2021

[IEEE Transactions on Green Communications and Networking - SI on Communications and Computing for Green Industrial IoT and Smart Grids](#)

- ▶ Guest Editors: Melike Erol-Kantarci, George C. Alexandropoulos, Peter Han Joo Chong, Andrea Tonello, Yan Zhang
– Submission deadline: 1 March 2021

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

▶ 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

▶ 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

SIG Communications and Networks to Enable the Smart Grid

► Conferences:

- IEEE BalkanComm 2021
- IEEE ISGT Europe 2022
- PMAPS 2022

SIG: AI and Computational Intelligence

▶ Keynotes:

- M. Erol-Kantarci, "AI-enabled Energy Trading for Microgrids and Transactive Energy Systems," at IEEE 3rd Global Power, Energy and Communication Conference, October 2021.
- Y. Zhang, "Blockchain and Federated Learning for IoT", at IEEE Engineering Day 2021 (ED'21)

▶ Distinguished lectures:

- M. Erol-Kantarci, "Recent advances in Smart Grid Communications," IEEE Sacramento Valley Section Chapter, New Orleans Section Chapter, Central Texas Section Chapter, Central Texas Section Joint, 8 November 2021.
- Y. Zhang, "Digital Twin for 6G and IoT", at IEEE ComSoc Argentina
- Y. Zhang, "Digital Twin for 6G and IoT", at Austin-IEEE Joint Chapters

▶ Special Issues:

- "Communications and Computing for Green Industrial IoT and Smart Grids" in IEEE Transactions on Green Communications and Networking. To be published in March 2022. GEs: A. Tonello, Y. Zhang, M. Erol-Kantarci, P. Chong, G. Alexandropoulos.
- "AI and 6G Convergence: An Energy-Efficiency Perspective", in IEEE Network Magazine, to be published in Nov/Dec. 2021. GEs: Y Zhang, M. Erol-Kantarci, W. Sun, Y. Dai, J. Hoydis, and M. Cenk Gursoy

P&Ps update

P&Ps update

- ▶ We have to update the TC-SGC P&Ps to reflect the TEA-Council new provisions rendered available in August 2020.
- ▶ **Main updates:**
 - Active Members are now called Voting Members
 - More than 1 Vice-Chair possible
 - TC officers can run for a second term, but they cannot exceed 6 consecutive years as an officer in the TC
 - Nominations and elections sub-committee and related procedures
 - At least two candidates for every officer position
 - Awards subcommittee and related procedures
 - 5 to 7 members. One has to be a TC officer (excluding the chair). It has to be firstly voted. Then sent for approval to TEAC
 - Two meetings/year at ICC or Globecom or SmartGridComm or other venue (also virtually if necessary)
 - SIGs can be formed
- ▶ **Approved by voting members. Results sent to TEAC**

There will be a significant restructuring of the TCs by next year

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TCSGC Awards

TCSGC awards

- ▶ Two awards
 - Outstanding Service Award
 - Technical Achievement Award
- ▶ **Committee members:** Anna Scaglione, Chris Develder, Christian Wietfeld, Lutz Lampe, Petar Popovski
- ▶ Formed according to updated P&Ps: collected vote for approval and informed TEAC
- ▶ Term until conclusion of activities (early 2022)

Nominations and Elections

New officers election for term 2022-23

- ▶ **N&E committee members**
 - Angela Yingjun Zhang, Lutz Lampe, Vincent Wong, Hans-Peter Schwefel, Fang Yang
- ▶ **Call for nominations sent out:** deadline Dec 13., 2021 (to be sent to Lutz Lampe)
- ▶ Election to be concluded by end of 2021.

Any other business ?

Next meeting

- ▶ ICC 2022, June 2022

Thank you!