

IEEE TCGCC semi-annual Meeting 2020

Host Prof. Yan Zhang, University of Oslo, Norway (Chair of TCGCC)

Time 04/12/2020 9:00am Eastern time (15:00 Central European Time, 22:00 Beijing)

Location Online via Zoom

1. WELCOME/Registration

Prof. Yan Zhang initiated the TCGCC meeting. The meeting recorder was TCGCC secretary Kun Wang. Due to the inconvenience of the signature on the attendance sheet in the online meeting, the attendance registration was done through the Zoom chat box with their information of the name, affiliation and email during the meeting period. No participant attends from roll call.

2. Approval of the Agenda

The Agenda was presented by the Chair. There were no objections, and no abstentions. The Agenda was unanimously approved.

3. Approval of meeting minutes at ICC'20

Prof. Yan Zhang then presented the Minutes of the TCGCC meeting at ICC 2020. There were no objections, and no abstentions. The Agenda was unanimously approved.

4. TCGCC Introduction

Presenter: Prof. Yan Zhang (Chair of TCGCC)

Prof. Yan Zhang introduced the key information regarding the TCGCC committee and this meeting, including executive committee 2019-2021, TCGCC overview about topics, goals, research areas, membership, mailing list, etc. Prof. Yan Zhang always encourage the colleagues to join our TCGCC.

Then, he analyzed the trend of the number of TCGCC members, the participants of TC meetings.

5. IEEE TGCN Journal – Introduction

Presenter: Prof. Zhisheng Niu (EiC of IEEE TGCN from August 2020)

Prof. Zhisheng Niu introduced IEEE Transactions on Green Communications and Networking with his “Share Screen”. He explained that the goal of TGCN is to advance and promote significant technology advances in green communications and networks including wireline, optical, and wireless communications and networks. He showed that Green communications and networking in this context means sustainable, energy- efficient, energy-aware, and environmentally aware communications and networking.

6. IEEE GC’20 Green Symposium

Presenter: Daniel So (Symposium Co-Chair)

Daniel So introduced Green Communication Systems and Networks Symposium at IEEE GC 2020. This covered information such as the symposium chairs, TPC members, review process, number of paper submissions, author distribution, and some remarks. The detailed data is listed as follows:

- Papers submitted: 56; Papers accepted: 22; Acceptance ratio: 39.3%
- 4 oral sessions and 1 best paper award

7. Special Interest Groups (SIG)

Four SIG chairs presented their SIG information about the chair group, and advisor, scope and objectives, Journal SI activities, conference organizations, and upcoming plans, respectively.

- SIG on Green Smart Grid Communications – presented by Melike Erol-Kantarci, University of Ottawa, Canada.
- SIG on Green Communications and Computing against Pandemics – presented by SIG Chair, Professor Sudip Misra, Indian Institute of Technology, Kharagpur.
- SIG on Green Cellular Networks – presented by Daniel Ka Chun So, University of Manchester, UK.
- SIG on Energy Harvesting Communication Networks – presented by Christos Masouros, University College London, UK.

8. TCGCC Conference/Journal activities

Prof. Yan Zhang presented the TCGCC Conference and Journal SI activities, separately.

- Publication activities

- Conference organization
- Journal collaboration

9. TCGCC Journal Collaboration

TCGCC created the first initiative in IEEE ComSoc to build close collaboration between journals and technical committee! Win-Win-Win collaboration is for journals, technical committee, and members career development. TCGCC Journal collaboration presented 78 nominations and 8+ joined editorial board in total.

- IEEE TGCN: 24 nominations, 3 recommended and joined editorial board
- DCN (Digital Communications and Networks): 12 nominations, 2 recommended and joined editorial board
- IEEE Systems Journal: 22 nominations, 2 recommended and joined editorial board
- IEEE Open Journal of Computer Society: 4 nominations, 1 recommended and joined editorial board
- IEEE Networking Letters: 16 nominations, # recommended and joined editorial board, nomination deadline (1 December).

Please help build collaboration with more journals.

10. TCGCC Seminar Series

TCGCC/TGCN 1st joint seminar on “AI for Green 6G”.

- 4 Distinguished Speakers:
 - (1) Tony Q.S. Quek, Singapore University of Technology and Design, Singapore, “AI: A Networking and Communication Perspective for 6G”
 - (2) Walid Saad, Virginia Tech., USA, “Two Novel Perspectives on Distributed Machine Learning”
 - (3) F. Richard Yu, Carleton University, Canada, “Blockchain-Enabled Green Internet of Intelligence”
 - (4) John Thompson, The University of Edinburgh, UK, “Overview of Green Technologies for Future Wireless Systems”
- 3224 Participants
- 1st Seminar joining technical committee and journal
- Highest number of participants in ComSoc TC online seminar

TCGCC/TGCN 2nd joint seminar on “emerging technologies for Green 6G”.

- 4 Distinguished Speakers:

- (1) Angela Yingjun Zhang, The Chinese University of Hong Kong, “Service Caching in Mobile Edge Computing”
 - (2) Kyle Jamieson, Princeton University, USA, “Quantum Computation for MIMO Detection and LDPC Decoding in Wireless Networks”
 - (3) Petar Popovski, Aalborg University, Denmark, “Signposts for Latency and Reliability on the Way Beyond 5G Wireless”
 - (4) Zhu Han, University of Houston, USA, “Reconfigurable Intelligent Surface for 6G”
- 1128 Participants
 - 2nd Seminar joining technical committee and journal
 - 4 topics on edge computing, edge caching, quantum computing, URLLC, RIS for 6G

11. TCGCC Awards, New Officers Election

Distinguished Lecture

- 5 nominations
- 4 candidates recommended to ComSoc

GC'22 Symposium Chairs

- 5 nominations
- 2 recommended to ComSoc

TCGCC Awards:

- TCGCC Distinguished Technical Achievement Recognition Award
- TCGCC Distinguished Service Award
- TCGCC Outstanding Young Researcher Award
- Due to new process in ComSoc, we need much more time. Please be patient. We may expect results in December 2020

Election of new officers:

The term of the current officers will end in March 2021. We will start election of new officers soon.

12. Discussion

More collaboration to support members

- We have close collaboration with TGCN
- We have collaboration with 5 journals, TC on smart grid communications
- We may consider more collaboration with other TC, e.g., TC on Big Data
- We may consider to establish collaboration with conferences, then we may recommend TPC, or organization committee
- More...

Emerging research fields to explore

- Mobile edge computing, edge intelligence, UAV, blockchain, green AI, communications-efficient AI, reconfigurable intelligent surface (RIS) , pandemic (COVID-19)

- Already established new SIG related to pandemic

13. More items and Adjourn

- SIG: welcome new SIG proposals or suggestions on reshaping the current SIGs.
- Next f2f meeting: IEEE ICC 2021, Montreal, Canada.

Finally, we hope you enjoy healthy and happy holiday. See you in ICC 2021!