

Semi-annual TCBD meeting 2024

Jinsong Wu, Chair, IEEE TCBD

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December 2024

Attendee record

Please input your name, affiliation and email address in zoom chatbox and/or input through google form through scanning the QR code



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Agenda

- Welcome and Introduction
- Approval for the minutes of ICC 2024 TCBD meeting
- TCBD Awards
- Talks about relevant activities in TCBD SIGs
- TC Restructuring Issues
- Other TCBD activities and Issues
- Next TCBD meeting
- Meeting adjournment

Current TCBD executive officers

- Chair: Jinsong Wu, University of Chile, Chile
- Vice Chair Asia Pacific, Celimuge Wu, University of Electro-Communications, Japan
- Vice Chair Europe /Africa, Yan Zhang, University of Oslo, Norway
- Vice Chair Americas, Ning Zhang, University of Windsor, Canada
- Secretary, Ruidong Li, Kanazawa University, Japan

History

- Founded as IEEE Technical SubCommittee on Big Data on December 2014 with the founding officer team
 - Chair: Jie Li, Tsukuba University, Japan
 - Vice Chair: Latin America Jinsong Wu University of Chile, Chile
 - Vice Chair: Europe/Africa Periklis Chatzimisios Alexander TEI of Thessaloniki, Greece
 - Vice Chair: Oceania Shui Yu Deakin University, Australia
 - Vice Chair: Asia/Pacific Kwang-Cheng Chen National Taiwan University
 - Vice Chair: North America Mahmoud Daneshmand Stevens Institute of Technology, USA
 - Secretary: Song Guo University of Aizu, Japan
- elevated as IEEE Technical Committee on Big Data on from December 2016 to November 2022 with the same founding officer team

Website and Email list

- Web site: <https://bdpan.committees.comsoc.org/>
- Email list: wujs@IEEE.ORG
- LinkedIn Group: <https://www.linkedin.com/groups/8198368/>

Big Data Track series in ComSoc flagship conferences

- The Big Data Track series was proposed by Jinsong Wu in June 2014, Started in IEEE Globecom2016
- 18 editions
- IEEE Globecom 2023: accepted 33, submissions 81

Special Interest Groups

1. IEEE SIG on Big Data for Cyber Security and Privacy: Chair: Longzhi Yang, Northumbria University, UK
2. IEEE SIG on Big Data with Computational Intelligence: Chair: Xianfu Chen, VTT Technical Research Centre of Finland, Finland
3. IEEE SIG on Big Data for Healthcare, Medicine and Biology: Chair: Alex Kuo, University of Victoria, Canada
4. IEEE SIG on Big Data Intelligent Networking: Chair: Ruidong Li, Kanazawa University, Japan
5. IEEE SIG on Wireless Big Data: Chair: Yang Yang, Shanghai University of Science and Technology, China
6. IEEE SIG on Big Data for Internet of Things and Edge Intelligence: Zhi Liu, The University of Electro-Communications, Japan
7. IEEE SIG on Green Big Data: Chair: Brij B. Gupta, Asia University, Taiwan

8. IEEE SIG on Artificial General Intelligence, Models and Agents: Chair:
Rongpeng Li, Zhejiang University, China

2023 TCBD Awards (1)

- **IEEE Communications Society Big Data 2023 Distinguished Technical Achievement Award**

• we would like to announce this award goes to the following awardee.

Albert Y. Zomaya, University of Sydney, Australia

Citation: **For longstanding technical and professional contributions to sustainable big data computing**



- Also we would like to thank the award subcommittee for the excellent work.
- **TCBD Distinguished Technical Achievement Award Subcommittee roster:**
- -----
- Chair: Ling Liu, Georgia Institute of Technology, USA
- Members:
 - Mahmoud Daneshmand, Stevens Institute of Technology, USA
 - Jie Li, Shanghai Jiao Tong University, China, University of Tsukuba, Japan
 - Mohsen Guizani, Mohamed Bin Zayed University of Artificial Intelligence, UAE
 - Kwang-Cheng Chen, University of South Florida, USA
- -----

2023 TCBD Awards (2)

- **IEEE Communications Society Big Data 2023 David G. Belanger Distinguished Service Award**

• We would like to announce this award goes to the following awardee.

Jie Li, Shanghai Jiao Tong University, China

Citation: **For distinguished service and leadership in big data and artificial intelligence community**



- Also we would like to thank the award subcommittee for the excellent work.
- **IEEE TCBD David G. Belanger Distinguished Service Award Subcommittee roster:**
- -----
- Chair: Mahmoud Daneshmand, Stevens Institute of Technology, USA,
- Members:
- Shui Yu, University of Technology Sydney, Australia
- Mohammad Asad Rehman Chaudhry, Borders in Globalization (University of Victoria), Canada
- Danda B. Rawat, Howard University, USA
- Celimuge Wu, the University of Electro-Communications, Japan
- -----

2023 TCBD Awards (3)

- **IEEE Communications Society Big Data 2023 Outstanding Mid-Career Achievement Award**
- we would like to announce this award goes to the following awardee.

Zhi Liu, The University of Electro-Communications, Japan
Citation: **For contributions in big data driven designs of multimedia and Internet of things systems**



- Also we would like to thank the award subcommittee for the excellent work.
- **IEEE TCBD Outstanding Mid-Career Achievement Award Subcommittee roster:**
- -----
- Chair: Mohsen Guizani, Mohamed Bin Zayed University of Artificial Intelligence, UAE
- Members:
- Mahmoud Daneshmand, Stevens Institute of Technology, USA
- Jie Li, Shanghai Jiao Tong University, China, University of Tsukuba, Japan
- Ling Liu, Georgia Institute of Technology, USA
- Kwang-Cheng Chen, University of South Florida, USA
- -----

TCBD Paper Awards (1)

- **IEEE Communications Society Big Data 2023 Best Influential Conference Paper Award**

Jiawen Kang, Zehui Xiong, Dusit Niyato, Han Yu, Ying-Chang Liang, Dong In Kim, Incentive Design for Efficient Federated Learning in Mobile Networks: A Contract Theory Approach, 2019 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS), 2019, pp. 1-5, doi: 10.1109/VTS-APWCS.2019.8851649

- **IEEE Communications Society Big Data 2023 Best Influential Journal Paper Award**

Xiaoyan Hu, Kai-Kit Wong, Kun Yang and Zhongbin Zheng, "UAV-Assisted Relaying and Edge Computing: Scheduling and Trajectory Optimization," in IEEE Transactions on Wireless Communications, vol. 18, no. 10, pp. 4738-4752, Oct. 2019, doi: 10.1109/TWC.2019.2928539.

- **IEEE Communications Society Big Data 2023 Best Influential Survey Paper Award**

Jinsong Wu, Song Guo, Jie Li, and Deze Zeng, "Big Data Meet Green Challenges: Greening Big Data", IEEE Systems Journal, vol. 10, no. 3, pp. 873-887, Sept. 2016, DOI: 10.1109/JSYST.2016.2550538, Date of Publication: 19 May 2016

TCBD Paper Awards (2)

IEEE TCBD Award Subcommittee on IEEE TCBD Best Paper Awards roster:

Chair: Kwang-Cheng Chen, University of South Florida, USA

Shahid Mumtaz, Nottingham Trent University, UK

Danda B. Rawat, Howard University, USA

Celimuge Wu, The University of Electro-Communications, Japan

RangaRao Venkatesha Prasad, Delft University of Technology, the Netherlands

Periklis Chatzimisios, International Hellenic University, Thessaloniki, Greece

Talks about relevant activities in TCBD SIGs

- Talk 1:
 - Speaker: Brij Gupta, Asia University, Taiwan
 - Topic: IEEE SIG on Green Big Data
- Talk 2:
 - Speaker: Ruidong Li, Kanazawa University, Japan
 - Topic: IEEE SIG on Big Data Intelligent Networking
- Talk 3:
 - Speaker: Shao Xun, Japan
 - Topic: IEEE SIG on Big Data for Internet of Things and Edge Intelligence

TC Restructuring Issues

Other Issues

Questions?

- Thank you for your attention!
- Welcome questions!

Next TCBD meeting

IEEE ICC 2025 in Montreal, Canada:

Meeting adjournment