



IEEE
COMMUNICATIONS
SOCIETY



TCBD Meeting

TC on Big Data

Chaired by Jie Li

GlobeCom 2022, Virtual Conference

November 20, 2022

Agenda

- 1. Welcome / Introduction**
- 2. Approval of the Agenda**
- 3. Updates on TCBD Status, Activities, and Future Technological Directions**
- 4. Any other Business**
- 5. Next TCBD meeting**
- 6. Adjourn**

2022 TCBD Election Result

TCBD Chair

Jinsong Wu (elected)

Shui Yu

TCBD-VC-AP

Shui Yu

Celimuge Wu (elected)

The TCBD Election Result has been approved by ComSoc just a few days ago after the approval of our TC recertification.

2022 TCBD Voting Result

TCBD-VC-A

Shengrong Bu

Ning Zhang (elected)

TCBD-VC-EA

Yan Zhang (elected)

Kun Yang

TCBD-Secretary

Zhi Liu

Zheng Chang

Ruidong Li (elected)

Officers (1)



Jie Li, Chair (Global and Asia Pacific)
Professor
Shanghai Jiao Tong University, China



Jinsong Wu, Vice-Chair (Latin America)
Professor
University of Chile, Chile

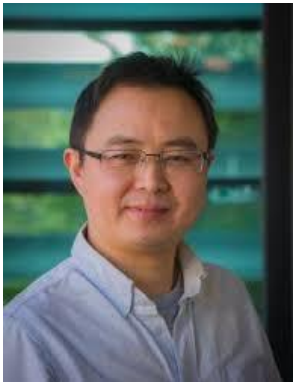
Officers (2)



Periklis Chatzimisios, Vice-Chair (Europe)

Professor

Alexander TEI of Thessaloniki, Greece



Shui Yu, Vice-Chair (Oceania)

Professor

University of Technology Sydney, Australia

Officers (3)

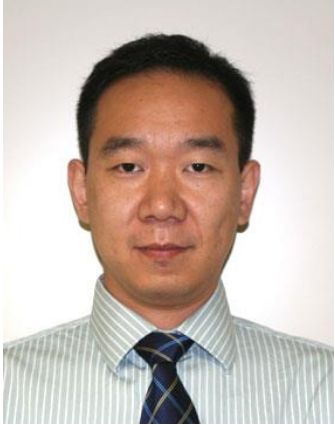


Kwang-Cheng Chen, Vice-Chair (Asia-Pacific) Professor
University of South Florida, USA



Mahmoud Daneshmand, Vice-Chair (North America) Professor
Stevens Institute of Technology, USA

Officers (4)



Song Guo, Secretary
Professor
The Hong Kong Polytechnic University
Hong Kong



Zhi Liu, Web Chair
Professor
Shizuoka University
Japan

Officers (6)



Nelson Fonseca, Advisor
Professor
The State University of Campinas,
Campinas - Brazil



Chi-Ming Chen
Industrial Liaison
AT&T Labs, USA

Officers (7)



Kathy Grise

IEEE Big Data Initiative Liaison

Future Directions

IEEE Technical Activities, USA



Wo Chang,

Standard Liaisons

NIST (National Institute of
Standards and Technology), USA

Activities in ComSoc Sponsored Major Conferences - Big Data Track Organization

- IEEE ICC 2022, 2021, 2020, 2019, 2018, 2017
Big Data Track in SAC Symposium
- IEEE GC 2022, 2021, 2020, 2019, 2018, 2017,
2016, Big Data Track in SAC Symposium

Activities in ComSoc Sponsored

Major Conferences - Workshop Organization

- IEEE INFOCOM 2022, 2021, 2020, 2019 ICCN (Intelligent Cloud Computing and Network) Workshops
- IEEE INFOCOM 2022, 2021, 2020, 2019, 2018, 2017 International Workshops on Security and Privacy in Big Data
- IEEE ICC21 IEEE International Workshop on Data Driven Intelligence for Networks and Systems (DDINS)
- IEEE GlobeCom Workshop on Computational Intelligence and Big Data Towards Trustworthy IoT, Dec. 2019.
- IEEE GlobeCom 2019 workshop on Intelligent and Cognitive Space, Terrestrial and Ocean Internet, Systems and Applications (IEEE GlobeCom ICSTO)

Activities in ComSoc Sponsored

Major Conferences - Workshop Organization

- IEEE ICC 2019 First International Workshop on Data Driven Intelligence for Networks and Systems (DDINS)
- IEEE/CIC International Conference on Communications Workshop on 5G Meets AI/ML: data-driven connectivity, computing and control, August 2019.
- The First International Workshop on Network Meets Intelligent Computations (NMIC) will be held with IEEE ICDCS 2019.
- The IEEE International on Knowledge Centric Networking, 2018, in conjunction with IEEE INFOCOM 2018. w.ieee-bdsta.org/infocom2016/

Activities in ComSoc Sponsored

Major Conferences - Workshop Organization

- IEEE Big Data Sciences, Technologies, and Applications (BDSTA), co-located with IEEE INFOCOM 2016, 10-15 APRIL 2016, SAN FRANCISCO, CA, USA, <http://www.ieee-bdsta.org/infocom2016/>

Activities in ComSoc Sponsored Major Conferences - Workshop Organization

- The first IEEE International Workshop on Green Standardizations for ICT and Relevant Technologies (GSICT) in conjunction with IEEE GlobeCom 2015
- The first IEEE International Workshop on Green Standardizations for ICT and Relevant Technologies (GSICT) in conjunction with IEEE GlobeCom 2015
- The fourth IEEE International Workshop on Cloud Computing Systems, Networks, and Applications (CCSNA) in conjunction with IEEE GlobeCom 2015

Activities in ComSoc Sponsored Major Conferences - Industry Panel Organization

- IEEE ICC 2017 Industry Panel P04. Big Data Analytics for Smart and Connected Health
- IEEE GlobeCom 2015 Industry Panel IF17: Big Data for Information and Communications Technologies

Activities in ComSoc Sponsored Major Conferences

- TSC Big Data (TSCBD) Meetings

- IEEE Globecom 2016 TSCBD meeting, December 6, 2016, Washington DC. USA.
- IEEE ICC 2016 TSCBD meeting, May 26, 2016, Kuala Lumpur, Malaysia.
- IEEE GlobeCom 2015 TSCBD meeting, December 8, 2015, San Diego, CA, USA.
- IEEE ICC 2015 TSCBD meeting, June 9, 2015, London, UK.

Activities in Technically Co-Sponsored Symposia/Workshops Organization

- IEEE ICDCS 2019 NMIC (Network Meets Intelligent Computations) workshop
- EURASIP Journal on Wireless Communications and Networking Special Issue on Evolutional Trends of Intelligent IoT in 5G Era
- IEEE Transactions on Network Science and Engineering Special Issue on Smart Systems and Intelligent Networking Powered with Big Data Analytics
- IEEE Infocom 2020 DDINS (Data Driven Intelligence for Networks and Systems) workshop

Activities in Technically Co-Sponsored Symposia/Workshops Organization

- International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC-2017), Najing, China , Oct. 2017.
- International Symposium on Big Data and Networking , Aizu-Wakamatsu, Japan, Feb 16-18, 2016.
- EAI International Conference on Big Data and Cyber-Physical-Social Computing, October 15-17, 2016, Nagasaki, Japan.
- 2016 IEEE International Conference on Smart Data, Dec. 2016.
- 2016 International Workshop on Data Science and Engineering (DSE) in conjunction with the International Conference on Parallel Processing (ICPP 2016).

Activities in Technically Co-Sponsored Symposia/Workshops Organization

- IEEE International Conference on Big Data Intelligence and Computing (IEEE DataCom 2018), Athena, Greece, August 6-10, 2018.
- IEEE International Conference on Big Data Intelligence and Computing (IEEE DataCom 2017), Florida USA, November 6-10, 2017.
- IEEE International Conference on Big Data Intelligence and Computing (IEEE DataCom 2016), Auckland, New Zealand, August 8-12, 2016. <http://grid.chu.edu.tw/datacom2016>
- Social Networks and Big Data Symposium, IEEE/CIC International Conference on Communications, 27-29 July 2016, Chengdu, China <http://iccc2016.ieee-iccc.org//>

Activities in Technically Co-Sponsored Symposia/Workshops

- Invited Keynote Speaker, "Global Green Challenges Meet Information and Communication Technologies as well as Big Data", International Conference on Advancement of Computer Communication & Electrical Technology (ACCET), October 2016
- - Invited Keynote Speaker, "Global Green Challenges Meet Big Data Era", International Conference on Advances in Computing, Communications and Informatics (ICACCI), September 2016
- - Invited Keynote Speaker, "The Relevance of Green Revolution to Information and Communication Technologies as well as Big Data", IEEE Latin-American Conference on Communications, Arequipa, Peru, Nov. 2015

Activities in Technically Co-Sponsored Symposia/Workshops

- Panelist, IEEE International Conference on Big Data Intelligence and Computing (IEEE DataCom), August 2016
- Keynote, IEEE DataCom, August 2016
- Keynote, IEEE International Conference on Sustainable Computing and Communications (IEEE SustainCom), December 2015

Publication Activities

- Supported Journal

- International Journal of Big Data Intelligence (IJBDI)
- IEEE Transactions on Big Data

Publication Activities

- Special Issues Organization

- IEEE Transactions on Intelligent Transportation Systems Special Issue on “Edge Intelligence for Internet of Vehicles”, 2020.
- International Journal of Distributed Sensor Networks Special Collection on Intelligent IoT - Artificial Intelligence for Future Internet of Things, 2020.
- Computing Special issue on Intelligence-driven Mobile Networks for Smart Cities, 2020.

- Special Issues Organization

- 2020 Wiley Transactions on Emerging Telecommunications Technologies (ETT) Special Issue on Intelligent Cloud Computing and Networking
- 2020 IEEE Network Magazine Special Issue on Big Data Intelligent Networking
- IEEE Computational Intelligence Magazine Special Issue on “Computational Intelligence for Internet of Things in the Big Data Era (Part I),” Nov 2019. (in press)

- Special Issues Organization

- IEEE Computational Intelligence Magazine Special Issue on “Computational Intelligence for Internet of Things in the Big Data Era (Part II),” IEEE Computational Intelligence Magazine, Feb 2020. (in press)
- IEEE Transactions on Emerging Topics in Computational Intelligence Special Issue on "Big Data and Computational Intelligence for Agile Wireless IoT", (in press)

Publication Activities

- Special Issues Organization

- IEEE Trans. on Network Science and Engineering Special Issue - Big Data and Artificial Intelligence for Network Technologies, 2018
- IEEE Trans. on Big Data Special Issue - Wireless Big Data, 2017
- Journal of Digital Communications and Networks (Elsevier), Special Issue on Big Data Security and Privacy, 2017

Publication Activities

- Special Issues Organization

- Journal of Future Generation Computer Systems, Special Issue on Social Networking Big Data Opportunities, Solutions, and Challenges, 2016.
- IEEE Assess Special Section on Theoretical Foundations for Big Data Applications: Challenges and Opportunities, 2016
- IEEE Access Special Section on Big Data for Green Communications and Computing, 2016
- IEEE JSAC ETC Special Issue - Big Data Area, 2016
- IEEE Network Magazine Special Issue on Big Data for Networking, 2015

Activities with IEEE-related chapters/societies

- Collaboration with **IEEE Big Data Initiative (BDI)** in Big Data Standardization and other related activities. 2014-2017
- Collaboration with **IEEE Big Data Community (BDC)**. 2018--

SIGs (Special Interest Groups)

- Big Data for Cyber Security and Privacy
- Big Data with Computational Intelligence
- Big Data for Healthcare, Medicine and Biology
- Wireless Big Data
- Big Data Intelligent Networking

Research work on Big Data



Other Issues

- **Best reading in Big Data**
- **News letters**

Web site and Membership

- Office web site
 - <http://www.comsoc.org/committees/technical-committee/big-data>
 - **Membership**
 - TCBD memberships give their members the opportunities:
 - To network with technical experts in related fields
 - To contribute to the activities in TCBD
 - To post messages to the TCBD mailing list

Email List

- You must be an official member of TCBD (instead of just a subscriber of TCBD mailing list) in order to be able to send or post messages to the official TCBD mailing list: tcbd@comsoc.org.
- To add yourself to or remove yourself from the TCBD mailing list, please go to <http://www.comsoc.org/committees/technical-committee/big-data>

Next meeting

- IEEE ICC 2023

Comments?
Suggestion?

Thank you
very much for
all your
supports!

