

IEEE COMMUNICATIONS SOCIETY

Wireless Communications Technical Committee (WTC)

GC2023, Kuala Lumpur
Wednesday, 6 December 2023,
12:00-14:00

Current Officers:

Chair: Yue Gao, Fudan University, China

Vice Chair: Jie Xu, The Chinese University of Hong Kong, Shenzhen, China

Secretary: Adlen Ksentini, EURECOM, France

Gentle Reminder

- ◆ Please sign the sign-up sheet (name, affiliation, email)

Agenda

- ◆ Approval of the Agenda
- ◆ Approval of last WTC Meeting Minutes
- ◆ WTC: General Information and Mission Statement
- ◆ WTC Activities
- ◆ Emerging Technologies & SIG
- ◆ New Initiatives of ComSoc
- ◆ WTC Awards
- ◆ Discussions
- ◆ WTC Seminar by Prof. Ross Murch
- ◆ Adjourn

Tuesday, May 16, 2023

ICC 2023 Wireless Communications Technical Committee (WTC) on Tuesday 16/05/23 Chaired by the WTC Chair: Yue Gao

In Attendance: Yue Gao (WTC Chair), Jie Xu (WTC Vice-Chair), Adlen Ksentini (WTC Secretary), and WTC members (see the attendance list)

Meeting started at 3:30pm CET, Tuesday, May 16, 2023

1. Welcome and Introduction
 - Chair initiated the WTC meeting. The meeting recorder was Adlen Ksentini. The attendance was recorded on the Zoom chat box.
2. Approval of the Agenda
 - The Agenda was presented by Chair, moved by Jie Xu and seconded by Shuai Han. There were no objections, and no abstentions. The Agenda was unanimously approved.
3. Approval of GC 2023 meeting minutes.
 - The minutes was presented by the Chair, moved by Chia-Han Lee and seconded by Jie Xu. There were no objections, and no abstentions. The meeting minutes was unanimously approved.
4. General introduction of WTC general information and mission statement
5. WTC Awards:
 - Presentation of the three awards given by WTC: WTC recognition awards, WTC outstanding young researcher award, and a new Service Award to be announced. Details are giving on each award and how to apply. A motion is proposed by Yue Gao regarding the composition of the WTC awards committee 2023 – 2024, moved by Petar Poposvski and seconded by Jie Xu.
 - Hossam: why Bechir Hamdaoui (former WTC chair) is not in the committee?
 - Yue Gao: the policy has been changed in the P&P. The former chair presence in the community is no more mandatory. It has been replaced by a person who won a WTC award or is a senior with high credibility in the community.
 - No objections and further discussion. The motion is passed.
6. WTC Activities :
 - Information on the WTC activities are presented, covering: Endorsement of conferences for TWC co-sponsorship, Nomination for Symposium Co-chairs of ICC and GLOBECOM, Endorsement of IEEE Fellowship, and nomination for ComSoc distinguished lecturer.
7. Emerging Technologies & SIG
 - Expression of interest in SIG submission
 - Information on TWC support on SIG
8. New initiatives of Comsoc
 - The Comsoc TC Newsletter
 - ComSoc Virtual Distinguished Lecture program
 - ComSoc YouTube channel
 - IEEE TV
9. Discussion
10. Adjourn (4:05pm)

Minutes of WTC meeting held at ICC2023



WTC - General Information

- ❖ Website: <http://wtc.committees.comsoc.org/>
 - About 1,600 members
 - Our members are encouraged to volunteer in professional activities

- ❖ Becoming WTC member
 - Open to all ComSoc members
 - Need to **subscribe** to WTC mailing list (<http://wtc.committees.comsoc.org/>)
 - **Note:** signing attendance sheet does not make you a WTC member

- ❖ Becoming **active** WTC member
 - Need to attend **at least 2 of 5 prior** WTC meetings
 - Past attendance records can be found at <https://wtc.committees.comsoc.org/meeting-minutes/>

- ❖ Mailing list: ieeewtc@comsoc.org
 - To join the WTC, click the link (or copy-paste the URL in your browser): <https://comsoc-listserv.ieee.org/cgi-bin/wa?SUBED1=ieeewtc&A=1>
 - Can opt out of mass emails; just log onto system and click appropriate box
 - WTC Chair emails are sent to all members
 - Opting out of WTC Chair emails can only be done by terminating your membership; this can also be done through the web



WTC - Mission Statement

- ❖ The mission of WTC is to **sponsor** publications, conferences, technical sessions, workshops, and other information exchanges on architectures, applications, systems, terminals and technologies to provide wireless, mobile, location-independent communication and computing in voice, data and visual media.
- ❖ Its areas of interest include techniques for achieving portability, ubiquity and transparency using mobile and wireless cellular networks ranging from physical layer, MAC layer, network layer to application layer.
- ❖ The committee also assumes the proactive duty to **nominate** suitable candidates for ComSoc and IEEE awards, **propose distinguished lecturer** candidates, **endorse** deserving candidates for the election to IEEE Senior Member and Fellow grade, make contributions to standards in an organized form.

See: <http://wtc.committees.comsoc.org/>



WTC Activities

Endorsement of Conferences for ComSoc technical co-sponsorship

- ❖ Conference should be relevant to WTC
- ❖ At least **three** WTC members should be involved in the conference TPC
- ❖ Conference shall enjoy a good reputation among the community
- ❖ WTC endorses a number of conferences every year

Nomination for Symposium Co-Chairs of ICC and Globecom

- ❖ Nominations have already been made up to ICC 2025
- ❖ Let us know if you are interested in participating in the future

Endorsement of IEEE Fellowship

- ❖ We did not receive any endorsements in Feb 2023

Nomination for ComSoc Distinguished Lecturers

- ❖ Deadline of Nomination was September 2023



Emerging Technologies

Expression of Interest in SIG submission

- ❖ Space, Air, Ground Integrated (SAGI) Communications
- ❖ Intelligent Reflecting Surface Assisted (IRSA) Communications
- ❖ Integrated Sensing and Communication
- ❖ Rate Splitting Multiple Access (RSMA)

SIG will be invited to present the technical and organizing progress through innovation project, e.g., SAGI has been funded.

WTC's support on SIG

- ❖ Technically (co-)sponsor Workshop/Symposium
- ❖ Organize special issue in Journals
- ❖ Promote seminars/talks

If anyone is interested in a SIG, please contact Prof. Yue Gao (yue.gao@ieee.org)

New Initiatives

The ComSoc TC Newsletter

If you have any news to share, please contact Prof. Yue Gao (yue.gao@ieee.org) with an email title: “The ComSoc TC Newsletter + year/month”

For this issue, the deadline was 19th June 2023.

2-3 issues per year!



New Initiatives

The 2023 ComSoc TC Innovation Support Project

- ❖ Space, Air, Ground Integrated (SAGI) Communications innovation project has been funded.
- ❖ Our WTC's one through GC 2023 meeting and award ceremony, and Prof. Ross Murch has been invited to give a talk.

ComSoc Virtual Distinguished Lecture program

<https://www.comsoc.org/membership/distinguished-lecturers>

ComSoc YouTube channel

<https://www.youtube.com/user/IEEEComSoc>

IEEETV <https://ieeetv.ieee.org/channels/communications>

WTC Awards

❖ Three Awards

- WTC Recognition Award
- WTC Outstanding Young Researcher Award
- WTC Service Award

WTC Awards Committee 2023 - 2024

- Chair: Zhi Ding, UC Davis, USA
- Rahim Tafazolli, University of Surrey, UK
- Lin Cai, University of Victoria, Canada
- Danijela Cabric, UCLA, USA
- Urbarshi Mitra, University of Southern California, USA
- Rui Zhang, The Chinese University of Hong Kong, Shenzhen, China

WTC Recognition Award



WTC Recognition Award

◆ BASIS FOR JUDGING

- A person with a high degree of visibility and contribution in the field of "Wireless and Mobile Communications Theory, Systems, and Networks"

◆ PRESENTATION

- Annually (as appropriate).
- No more than two awards will be given per year.

◆ NOMINATION

- Solicited from the WTC members annually.
- Should include a (short) sentence for "what service or accomplishment" the person is nominated for and a one-page supporting material.
- Additionally, two letters supporting the nomination may be sent to the WTC Award Committee Chair.

IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee
2023 TECHNICAL RECOGNITION AWARD

PRESENTED TO

Ross Murch

FOR CONTRIBUTIONS TO MULTIPLE ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS



Xuemin (Sherman) Shen, President, IEEE Communications



Wei Zhang, VP - Technical and Educational Activities, IEEE Communications



WTC Recognition Award Winner: Ross Murch

Ross Murch (S'84-M'90-SM'98-F'09) received the bachelor's and Ph.D. degrees in electrical and electronic engineering from the University of Canterbury, Christchurch, New Zealand, in 1987 and 1990, respectively. He was the Department Head of the Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology (HKUST), Hong Kong, for two three-year terms from 2009 to 2015. He is currently the Chair Professor with the Department of Electronic and Computer Engineering and an IAS Fellow with the Institute of Advanced Study, HKUST. His unique expertise lies in his intradisciplinary knowledge of both wireless communication systems and electromagnetics. 20 patents. He has successfully supervised over 50 research students.

His research focuses on creating new RF wave technology for making a better world and this includes areas such as the Internet of Things, RF imaging, RF sensing, RF navigation, ambient RF systems, energy harvesting, electromagnetic information theory, 6G, multipoint antenna systems, and reconfigurable intelligent surfaces. Dr. Murch is a fellow of Institution of Engineering and Technology (IET) and The Hong Kong Institution of Engineers (HKIE). He has won several prizes including three teaching awards. He has been involved in IEEE activities including being an Area Editor of IEEE Transactions on Wireless Communications and the Chair of the IEEE Technology Committee on Wireless Communications.



IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee
2023 TECHNICAL RECOGNITION AWARD

PRESENTED TO

Shuguang Cui

FOR CONTRIBUTIONS TO INTELLIGENT AND EFFICIENT WIRELESS SYSTEMS



Xuemin (Sherman) Shen, President, IEEE Communications



Wei Zhang, VP - Technical and Educational Activities, IEEE Communications



WTC Recognition Award Winner: Shuguang Cui

Shuguang Cui (F'13) received his Ph.D in Electrical Engineering from Stanford University, California, USA, in 2005. Afterwards, he has been working as assistant, associate, full, Chair Professor in Electrical and Computer Engineering at the Univ. of Arizona, Texas A&M University, UC Davis, and CUHK at Shenzhen, respectively. His current research interests focus on the merging between AI and communication networks.

He was selected as the Thomson Reuters Highly Cited Researcher and listed in the Worlds' Most Influential Scientific Minds by ScienceWatch in 2014. He was the recipient of the IEEE Signal Processing Society 2012 Best Paper Award. He is a member of the Steering Committee for IEEE Transactions on Big Data and the Chair of the Steering Committee for IEEE Transactions on Cognitive Communications and Networking. He is also the Vice Chair of the IEEE VT Fellow Evaluation Committee and a member of the IEEE ComSoc Award Committee. He was elected as an IEEE Fellow in 2013, an IEEE ComSoc Distinguished Lecturer in 2014, and IEEE VT Society Distinguished Lecturer in 2019. In 2020, he won the IEEE ICC best paper award, ICIP best paper finalist, the IEEE Globecom best paper award.

In 2021, he won the IEEE WCNC best paper award. In 2023, he won the IEEE Marconi Best Paper Award, got elected as a Fellow of both Canadian Academy of Engineering and the Royal Society of Canada, and starts to serve as the Editor-in-Chief for IEEE Transactions on Mobile Computing.



WTC Outstanding Young Researcher Award



WTC Outstanding Young Researcher Award

This award recognizes WTC members who have achieved **early career visibility** in the field through research and service to WTC.

No more than two awards will be given per year.

The nominee must:

- ◆ be an **IEEE ComSoc Member** and an **active WTC member** at the time of nomination (see P&P for “active WTC member”),
- ◆ have been involved significantly with research related to the areas of wireless communications, and
- ◆ be **within 10 years since completion of Ph.D.** at the time of nomination.

IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee
2023 EARLY ACHIEVEMENT AWARD

PRESENTED TO

Haibo Zhou

FOR CONTRIBUTIONS TO WIRELESS ACCESS AND RESOURCE MANAGEMENT IN VEHICULAR
NETWORKS AND SPACE-AIR-GROUND INTEGRATED NETWORKS



Xuemin (Sherman) Shen, President, IEEE Communications



Wei Zhang, VP - Technical and Educational Activities, IEEE Communications



WTC Outstanding Young Researcher Award Winner: Haibo Zhou

Haibo Zhou (M'14-SM'18) received the Ph.D. degree in information and communication engineering from Shanghai Jiao Tong University, Shanghai, China, in 2014. From 2014 to 2017, he was a Postdoctoral Fellow with the Broadband Communications Research Group, Department of Electrical and Computer Engineering, University of Waterloo. He is currently a Full Professor with the School of Electronic Science and Engineering, Nanjing University, Nanjing, China.

He was a recipient of the 2019 IEEE ComSoc Asia–Pacific Outstanding Young Researcher Award, 2023-2024 IEEE ComSoc Distinguished Lecturer, and 2023- 2025 IEEE VTS Distinguished Lecturer. He served as Track/Symposium Co-Chair for IEEE/CIC ICC 2019, IEEE VTC-Fall 2020, IEEE VTC-Fall 2021, WCSP 2022, IEEE GLOBECOM 2022, IEEE ICC 2024. He is currently an Associate Editor of the IEEE Transactions on Wireless Communications, IEEE Internet of Things Journal, IEEE Network Magazine, and Journal of Communications and Information Networks. His research interests include resource management and protocol design in B5G/6G networks, vehicular ad hoc networks, and space-air-ground integrated networks.



WTC Service Award



WTC Service Award

This award recognizes WTC members who have demonstrated exemplary service to WTC, its members and to the WTC community at large, including taking on leadership roles, organizing symposia and workshops in WTC-related areas, and promoting activities of interest to the WTC research community.

No more than two awards will be given per year.

The nominee must:

- ◆ be an [IEEE ComSoc Member](#) and an [active WTC member](#) at the time of nomination (see P&P for “active WTC member”),
- ◆ have been involved significantly with research related to the areas of wireless communications,
- ◆ have demonstrated exemplary service to WTC, its members and to the WTC community at large.

IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee
2023 DISTINGUISHED SERVICE AWARD

PRESENTED TO

Lajos Hanzo

FOR LIFE-LONG SERVICES PROMOTING TELECOMMUNICATIONS



Xuemin (Sherman) Shen, President, IEEE Communications



Wei Zhang, VP - Technical and Educational Activities, IEEE Communications



WTC Service Award: Lajos Hanzo

Lajos Hanzo (F'04) received his Master degree and Doctorate in 1976 and 1983, respectively from the Technical University (TU) of Budapest. He was also awarded the Doctor of Sciences (DSc) degree by the University of Southampton (2004) and Honorary Doctorates by the TU of Budapest (2009) and by the University of Edinburgh (2015).

He is a Foreign Member of the Hungarian Academy of Sciences and a former Editor-in-Chief of the IEEE Press. He has served several terms as Governor of both IEEE ComSoc and of VTS.

He has published 2000+ contributions at IEEE Xplore, 19 Wiley-IEEE Press books and has helped the fast-track career of 123 PhD students. Over 40 of them are Professors at various stages of their careers in academia and many of them are leading scientists in the wireless industry.

He is also a Fellow of the Royal Academy of Engineering (FREng), of the IET and of EURASIP. He holds the Eric Sumner Field Award.





Discussions

Any suggestion?

Gentle Reminder

- ◆ Please sign the sign-up sheet (name, affiliation, email)

WTC Seminar

- ◆ **Title:** Linking Electromagnetic Modeling with Wireless System Design
- ◆ **Speaker:** Prof. Ross Murch

Thank You!

Next WTC meeting will be held at
ICC 2024