



IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee
(WTC)

GC2021, online meeting
Tuesday Nov 23, 8am PDT (Los Angeles, USA)

Officers:

Chair: Bechir Hamdaoui, Oregon State Univ.

Vice Chair: Yue Gao, Univ. of Surrey, UK

Secretary: Jie Xu, Chinese Univ. of Hong Kong, Shenzhen

Agenda

- ◆ Approval of the Agenda
- ◆ Approval of last WTC Meeting Minutes
- ◆ Attendance & Signing Up
- ◆ WTC: General Information and Mission Statement
- ◆ WTC Awards
- ◆ WTC Activities
- ◆ WTC P&Ps Updates
- ◆ Discussion & Other Businesses
- ◆ Adjourn

GC2021 WTC Special (Sep 10, 2021) Meeting minutes

Wireless Communications Technical Committee (WTC)

Friday, September 10, 2021

Wireless Communications Technical Committee (WTC) Special Meeting on Friday Sept 10, 2021

Chaired by the WTC Chair: Bechir Hamdaoui

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

Meeting started at 9:00am (Time Zone: America/New_York), Friday, September 10, 2021

1. Welcome and Introduction
Chair initiated the WTC meeting. The meeting recorder was Jie Xu. The attendance was recorded on the Zoom chat box.
2. Approval of the Agenda (The Agenda was presented by Chair, moved by Yue Gao and seconded by Josep M. Jornet. There were no objections, and no abstentions. The Agenda was unanimously approved)
3. Approval of ICC 2021 meeting minutes. (The minutes was moved by the Chair and seconded by Josep M. Jornet. There were no objections, and no abstentions. The minutes was unanimously approved)
4. Distinguished Lecturer Information
5. WTC Awards Information
 - Types: WTC Recognition Award and WTC Outstanding Young Researcher Award
 - Award Subcommittee Selection Criteria
 - Diversity (gender, region, etc.)
 - Past award recipients
 - Aligned with other TCs' selection criteria
 - 2021/22 WTC Award Subcommittee: Nelson Fonseca, Neeli Prasad, Lajos Hanzo, Pooi-Yuen Kam, Hussein Mouftah (chair) (The subcommittee was moved by the Chair and seconded by Mohsen Guizani. There were no objections, and no abstentions. The 2021/22 WTC Award Subcommittee was unanimously approved)
6. Discussion & Other Businesses
 - Items to be updated in accordance with ComSoc P&Ps
 - Officer election section
 - Award subcommittee section
 - Michael Fang suggested to add a new Service Award in WTC
7. Adjourn (9:30am)

Attendance & Signing Up

- ◆ Make sure to sign up for the meeting by typing your “**FirstName, LastName, Affiliation, Email**” in the zoom chat room
- ◆ Also, please keep your mic muted unless you want to talk
- ◆ All past attendances are posted on <https://wtc.committees.comsoc.org/meeting-minutes/>

WTC - General Information

- ❖ Website: <http://wtc.committees.comsoc.org/>
 - *About 1750+ members in the list*
 - Our members are encouraged to volunteer in professional activities

- ❖ Becoming WTC member
 - Open to all ComSoc members
 - Need to **subscribe** to WTC mailing list (Instructions are on WTC web page)

- ❖ 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
 - 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 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**, and **endorse** deserving candidates for the election to **IEEE Senior Member and Fellow grade**, make **contributions to standards** in an organized form.



WTC Awards: Types

❖ WTC Recognition Award

- A person with a high degree of visibility and contribution to the field of "Wireless and Mobile Communications Theory, Systems, and Networks"
- Two awards, at most, will be given each year

❖ WTC Outstanding Young Researcher Award

- Recognizes WTC members who achieved early career visibility in the field through research and service to WTC.
- Need be ComSoc member and active WTC member at the time of nomination
- Need be within 10 years since completion of Ph.D. at the time of nomination



WTC Awards: Types

- ❖ A new Service Award – status update
 - Proposed by a few TC members during last meeting in September
 - A request for this new award is made to VP-TEA
 - Update from VP-TEA: new awards will require TC Board approval; will be discussed at TAB
 - Will keep you posted with the process

WTC Awards: Subcommittee

2021/22 WTC Award Committee

- ◆ Neeli Prasad; VehicleAvatar Inc, USA
- ◆ Nelson Fonseca; State University of Campinas, Brazil
- ◆ Lajos Hanzo; University of Southampton, UK
- ◆ Pooi-Yuen Kam; The Chinese University of Hong Kong, Shenzhen, China
- ◆ Hussein Mouftah; University of Ottawa, Canada (chair)

WTC Awards: Timeline

Nomination and Selection Timeline

- ◆ Call for nominations sent out to all WTC members: **Sept 13, 2021**
- ◆ Deadline for receiving nominations: **Oct 15, 2021**
- ◆ Received list of Award Winners from Award Subcommittee: **Oct. 28, 2021**
- ◆ Received Award Selection Report from Award Subcommittee Chair: **Nov. 2, 2021**
- ◆ WTC chair sent the report to VP-TEA for approval: **Nov 3, 2021**
- ◆ Award winners approved by VP-TEA: **Nov 21, 2021**
- ◆ **A word from the committee chair**



WTC Recognition Awards



The IEEE Wireless Communications Technical Committee (WTC) is proud to present the **2021 WTC Recognition Award** to

Professor Andreas F. Molisch

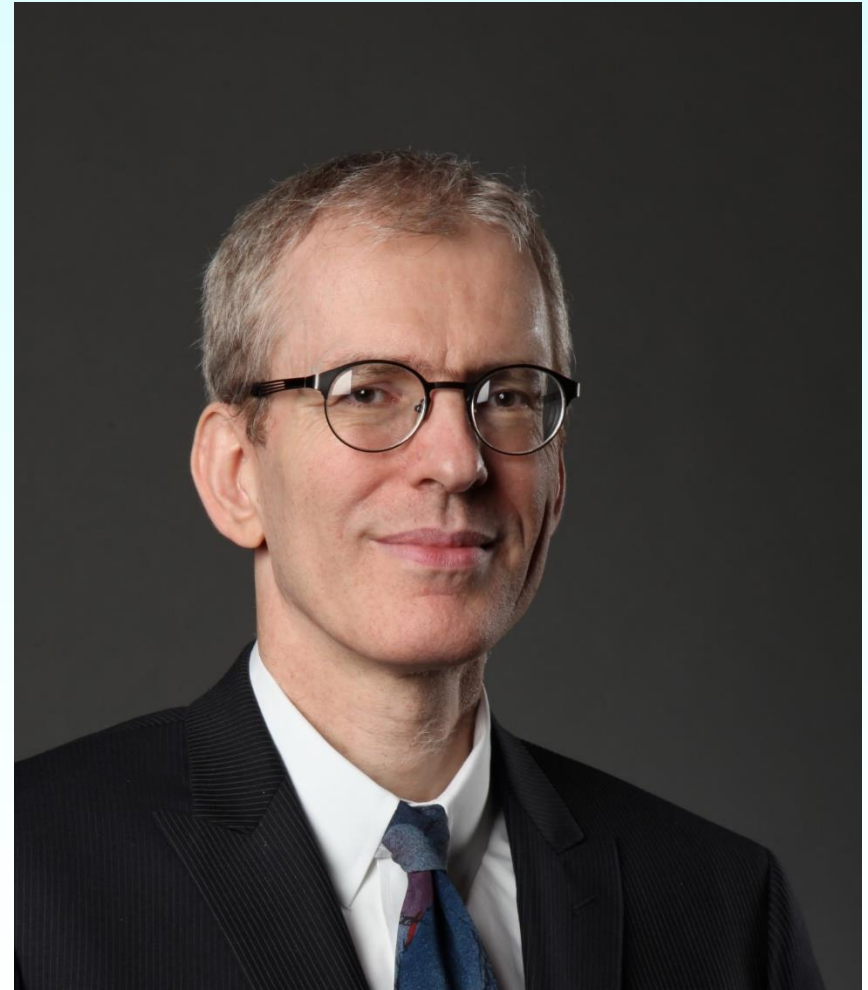
for his exceptional contributions to the field of “Wireless and Mobile Communications Theory, Systems, and Networks”

Bechir Hamdaoui
IEEE ComSoc WTC Chair
December 2021

Hussein Mouftah
Award Subcommittee Chair
December 2021

WTC Recognition Award Winner: Andreas F. Molisch

Andreas F. Molisch received his PhD and habilitation from TU Vienna in 1994 and 1999, respectively. After 10 years in industry, he joined the University of Southern California, where he is now the *Solomon Golomb – Andrew and Erna Viterbi* Chair Professor. His research interest is wireless communications, with emphasis on wireless propagation channels, multi-antenna systems, ultrawideband signaling and localization, novel modulation methods, caching for wireless content distribution, and edge computing. He is the author of four books, including the textbook “Wireless Communications”, 21 book chapters, more than 270 journal papers, 370 conference papers, as well as 70 granted patents and many standards contributions; he is a Clarivate Highly Cited Researcher, his work has been cited more than 56,000 times, and his h-index is 100. He is a Fellow of the National Academy of Inventors, IEEE, AAAS, and IET, as well as Member of the Austrian Academy of Sciences and recipient of numerous awards, including the Eric Sumner Award of the IEEE and the Armstrong Award of ComSoc.





The IEEE Wireless Communications Technical Committee (WTC) is proud to present the **2021 WTC Recognition Award** to

Professor Tarik Taleb

for his exceptional contributions to the field of “Wireless and Mobile Communications Theory, Systems, and Networks”

Bechir Hamdaoui
IEEE ComSoc WTC Chair
December 2021

Hussein Mouftah
Award Subcommittee Chair
December 2021

WTC Recognition Award Winner: Tarik Taleb

Prof. Tarik Taleb is currently a Professor at the Center of Wireless Communications, The University of Oulu, Finland. He is the founder and director of the MOSAIC Lab (www.mosaic-lab.org). He is the founder and board chair of ICTFicial Oy. Between Oct. 2014 and Dec. 2021, he was a Professor at the School of Electrical Engineering, Aalto University, Finland. Prior to that, he was working as Senior Researcher and 3GPP Standards Expert at NEC Europe Ltd, Heidelberg, Germany. He was then leading the NEC Europe Labs Team working on R&D projects on carrier cloud platforms. Before joining NEC and till Mar. 2009, he worked as assistant professor at the Graduate School of Information Sciences, Tohoku University, Japan, in a lab fully funded by KDDI, the second largest mobile operator in Japan. From Oct. 2005 till Mar. 2006, he worked as research fellow at the Intelligent Cosmos Research Institute, Sendai, Japan. He received his B. E degree in Information Engineering with distinction, M.Sc. and Ph.D. degrees in Information Sciences from Tohoku Univ., in 2001, 2003, and 2005, respectively.

Prof. Taleb's research interests lie in the field of telco cloud, network softwarization & network slicing, AI-based software defined security, immersive communications, mobile multimedia streaming, & next generation mobile networking. Prof. Taleb has been also directly engaged in the development and standardization of the Evolved Packet System as a member of 3GPP's System Architecture working group 2. Prof. Taleb served on the IEEE Communications Society Standardization Program Development Board. As an attempt to bridge the gap between academia and industry, Prof. Taleb founded the "IEEE Workshop on Telecommunications Standards: from Research to Standards", a successful event that got awarded "best workshop award" by IEEE Communication Society (ComSoC). Based on the success of this workshop, Prof. Taleb has also founded and has been the steering committee chair of the IEEE Conf. on Standards for Communications and Networking.

Prof. Taleb served as the general chair of the 2019 edition of the IEEE Wireless Communications and Networking Conference (WCNC'19) held in Marrakech, Morocco. He was the guest editor in chief of the IEEE JSAC Series on Network Softwarization & Enablers. He is/was on the editorial board of the IEEE Transactions on Wireless Communications, IEEE Wireless Communications Magazine, IEEE Journal on Internet of Things, IEEE Transactions on Vehicular Technology, IEEE Communications Surveys & Tutorials, and a number of Wiley journals. Till Dec. 2016, he served as chair of the Wireless Communications Technical Committee, the largest in IEEE ComSoC. He also served as Vice Chair of the Satellite and Space Communications Technical Committee of IEEE ComSoc (2006 - 2010).

Prof. Taleb is the recipient of the 2017 IEEE ComSoc Communications Software Technical Achievement Award (Dec. 2017) for his outstanding contributions to network softwarization. He is also the (co-) recipient of the 2017 IEEE Communications Society Fred W. Ellersick Prize (May 2017), the 2009 IEEE ComSoc Asia-Pacific Best Young Researcher award (Jun. 2009), the 2008 TELECOM System Technology Award from the Telecommunications Advancement Foundation (Mar. 2008), the 2007 Funai Foundation Science Promotion Award (Apr. 2007), the 2006 IEEE Computer Society Japan Chapter Young Author Award (Dec. 2006), the Niwa Yasujiro Memorial Award (Feb. 2005), and the Young Researcher's Encouragement Award from the Japan chapter of the IEEE Vehicular Technology Society (VTS) (Oct. 2003). Some of Prof. Taleb's research work have been also awarded best paper awards at prestigious IEEE-flagged conferences.



WTC Outstanding Young Researcher Award



The IEEE Wireless Communications Technical Committee (WTC) is proud to present the **Outstanding Young Researcher Award** to

Professor Harpreet S. Dhillon

for his research contributions to the field of wireless communications and for his service to WTC”

Bechir Hamdaoui
IEEE ComSoc WTC Chair
December 2021

Hussein Mouftah
Award Subcommittee Chair
December 2021

WTC Outstanding Young Researcher Award Winner: Harpreet S. Dhillon

Harpreet S. Dhillon received the B.Tech. degree in electronics and communication engineering from IIT Guwahati in 2008, the M.S. degree in electrical engineering from Virginia Tech in 2010, and the Ph.D. degree in electrical engineering from the University of Texas at Austin in 2013. After serving as a Viterbi Postdoctoral Fellow at the University of Southern California for a year, he joined Virginia Tech in 2014, where he is currently an Associate Professor of electrical and computer engineering and the Elizabeth and James E. Turner Jr. '56 Faculty Fellow. His research interests include communication theory, wireless networks, stochastic geometry, geolocation, and machine learning.

He is a Clarivate Analytics Highly Cited Researcher and has received six best paper awards including the 2014 IEEE Leonard G. Abraham Prize, the 2015 IEEE ComSoc Young Author Best Paper Award, and the 2016 IEEE Heinrich Hertz Award. In 2020, he received Early Achievement Awards from the IEEE ComSoc Communication Theory Technical Committee (CTTC) and the IEEE ComSoc Radio Communications Committee (RCC). He was named the 2017 Outstanding New Assistant Professor, the 2018 Steven O. Lane Junior Faculty Fellow, the 2018 College of Engineering Faculty Fellow, and the recipient of the 2020 Dean's Award for Excellence in Research by Virginia Tech. His other academic honors include the 2008 Agilent Engineering and Technology Award, the UT Austin MCD Fellowship, the 2013 UT Austin WNCG leadership award, and the inaugural IIT Guwahati Young Alumni Achiever Award 2020. He is currently serving as a Senior Editor for the IEEE Wireless Communications Letters and an Editor for the IEEE Transactions on Wireless Communications and the IEEE Transactions on Green Communications and Networking. He is also serving as the TPC Co-chair for IEEE WCNC 2022 and has served as the symposium or track TPC Co-chair for IEEE ICC 2020, IEEE ICC 2019, IEEE/CIC ICC 2019, IEEE VTC 2018, and IEEE PIMRC 2017.



WTC Activities

- ◆ WTC Online Seminar Series
- ◆ GC/ICC Symposia Chair Nomination
- ◆ Distinguished Lecturer Nomination
- ◆ Conference Co-Sponsorship Endorsement

WTC Activities: WTC Online Seminar Series

2021 WTC Online Seminars

- 1. Coming soon! Dec 13 @ 8a PST**
Prof. Jeffery Andrews, Univ. of Texas at Austin
Title: High Dimensional 6G Networks via Site-Specific Deep Learning
- 2. Prof. Hamid Jafarkhani, Univ. of California, Irvine**
Title: Optimal Deployment in Heterogeneous Wireless Networks including UAVs: A Quantization Theory Perspective
- 3. Prof. Lajos Hanzo, Univ. of Southampton, UK**
Title: On the Road From Classical to Quantum Communications
- 4. Prof. Josep M. Jornet, Northeastern University, USA**
Title: Conquering the Terahertz Band for 6G Systems

WTC Activities: GC/ICC Symposia Chair Nomination

WTC's Sponsored GC/ICC Symposia:

- ❖ Wireless Communication Symp
- ❖ Mobile and Wireless Networks Symp
- ❖ Ad Hoc & Sensor Networks Symp
- ❖ Cognitive Radio & AI-enabled Networks Symp
- ❖ Signal Processing for Communications Symp
- ❖ Communication Theory Symp

WTC Activities: GC/ICC Symposia Chair Nomination

❖ WTC made 9 nominations for ICC 2023:

- ❖ Chin-Tser Huang, Univ. of South Carolina, USA
- ❖ Marwa Chafii, CY Paris University, ENSEA, France
- ❖ Shuai Huan, Harbin Institute of Technology, China
- ❖ Ismaeel Al Ridhawi, Kuwait College of Sci and Tech, Kuwait
- ❖ Rui Dinis, Noa University of Lisbon, Portugal
- ❖ Sharief Oteafy, DePaul University, USA
- ❖ Jie Xu, The Chinese Univ of Hong Kong, Shenzhen
- ❖ Arsenia Chorti, Ecole Nationale Sup. De l'Electronique et ses apps, France
- ❖ Qihui Wu, Nanjing Univ of Aeronautics and Astronautics, China

❖ Nominations for GC 2023 are open:

- ❖ Let us know if you are interested by Nov 25
- ❖ Eligibility:
 - (1) not chairing 3 or more in 10 most recent ICC/GC confs. (GC 18 to ICC 23)
 - (2) not selected to chair in ICC 2023

WTC Activities: Distinguished Lecturer Nomination

❖ Requirements to be a nominee

- Be an IEEE Senior member and a ComSoc member
- Agree to prepare a conference tutorial if and when asked

❖ Nominators of a DL:

- Should be an IEEE Senior Member who is a ComSoc member
- Could be WTC (or any other TC)

❖ Selection process timeline

- Call for nominations are sent as soon as received from DL committee chair
- Selection of DL candidates and TC nominations are made by WTC officers
- WTC (and any other TC) can nominate up to 4 candidates
- Two-year terms, with possibly one more time.

❖ 2021 DL nominations:

- 4 WTC members were nominations this year

WTC Activities: Conference Technical Co-Sponsorship

- ❖ **WTC endorsement of conferences: requirements**
 - ❖ Technical scope of conference should be relevant to WTC
 - ❖ At least 3 WTC members should be involved in the conference TPC
 - ❖ The conference should enjoy good reputation among the community

- ❖ **A number of conferences have been endorsed by WTC this year**
 - ❖ We endorsed 3 conferences so far this year

WTC P&Ps Updates

◆ P&Ps Updates

- Last TC P&Ps updates were made on Dec 2019
- Oct 2020 General P&P policies made some significant changes, which need to be incorporated into our TC P&Ps

◆ Important to Note

- No new policies are to be approved by the TC
- TC must simply adhere to General P&Ps
- Need to update/align our TC P&Ps with general comsoc P&Ps

WTC P&Ps Updates

- ◆ **Mainly, two P&P sections need be updated**
 - Section 4 (Nomination and Election Procedures)
 - Section 7 (WTC Awards)

- ◆ **Major Section 4 updates**
 - There must be at least 2 candidates on the ballot for each officer
 - Only TC voting members are eligible to run as elected officer
 - Elected Officers shall not serve for more than six consecutive years in any position within the same TC. A TC Chair is ineligible to serve concurrently as Chair for more than one TC.
 - **Voting could be held electronically when virtual or hybrid attendance model is allowed by Globecom policies**

WTC P&Ps Updates

- ◆ **Mainly, two P&P sections need be updated**
 - Section 4 (Nomination and Election Procedures)
 - Section 7 (WTC Awards)

- ◆ **Major Section 7 updates**
 - Section 7 was written with only one award (Recognition Award) in mind
 - Now we changed it to include the other award as well
 - Provided description of each of the two awards separately
 - Award committee selection process is aligned with general P&Ps.

- ◆ **Updated P&P draft is posted on website**
 - Take a look at TC P&Ps on the website
 - Email any suggestion/change you may have via email by **Nov 30, 2021**

<https://wtc.committees.comsoc.org/policies-and-procedures/>

Discussion and any other businesses

Two more items to mention

❖ TC rectification

- WTC is going through the review process for rectification this year

❖ WTC Online Seminar Series

- Prof. Jeffrey Andrews is our next speaker
- Date/time: Dec 13 @ 8am PST
- Keep an eye out for the ad with more details

Any other item for discussion

Adjourn

Thank You!