

IEEE COMMUNICATIONS SOCIETY

Wireless Communications Technical Committee (WTC)

GC2018, Abu Dahbi

Tue., 12/11/2018

12:30 pm– 2:00pm

Capital Suite 5

Current Officers:

Chair: Shuguang (Robert) Cui, UC Davis

Vice Chair: Wei Zhang, UNSW

Secretary: Bechir Hamdaoui, Oregon State Univ.

Agenda

- ◆ Approval of the Agenda
- ◆ Approval of last WTC Meeting Minutes
- ◆ About WTC
- ◆ WTC Recognition Award
- ◆ To launch: WTC Distinguished Young Researcher Award
- ◆ Updates on WTC Activities
- ◆ WTC ML & Website Updates
- ◆ Updates from TEAC
- ◆ New Officer Election
- ◆ Any other Business?
- ◆ Adjourn

Minutes of WTC meeting held at ICC 2018

Chaired by WTC Vice-Chair: Wei Zhang

In Attendance: Wei Zhang (WTC Vice Chair), Bechir Hamdaoui (WTC Secretary), and WTC members

- ◆ Approval of ICC meeting minutes
- ◆ Introduction of WTC mission statement
- ◆ Update on voting conditions and eligibility
- ◆ WTC Award Committee members of WTC 2018
- ◆ Introduced a new WTC Award: WTC Outstanding Young Researcher Award
 - To be decided by award committee
 - Recognizes young members
 - Announcement will be made in GC
- ◆ Update of WTC activities and conference endorsement
- ◆ Nomination of symposium co-chairs of ICC and GC
 - So far, nominations are made up to ICC 2020 8. Endorsement of IEEE Fellows
 - Last year 5 endorsements were made; two were successful
- ◆ Nominations for DL
 - Total: 56 nominations, 16 successful
 - WTC only: 4 nominated, 2 successful
- ◆ Update of Mailing list and website
- ◆ Updates from TEAC
- ◆ TCRSC will be reviewing all TCs
- ◆ Meeting finished: 1pm



Our WTC

1. Website: <http://wtc.committees.comsoc.org/>
2. *About 1500 members*
3. Membership:
 - Open to all ComSoc members
 - To become a member it is necessary to subscribe to the WTC mailing list as specified on the WTC web page.
 - Signing on the attendance sheet does not qualify to be a WTC member.
 - A member becomes an **active member** if he/she has attended two or more of the prior five regularly scheduled WTC meetings.
4. Our members are encouraged to volunteer in professional activities
5. All members may decide to opt out of the mass/bulk emails by logging onto the system and clicking the appropriate box
6. Emails from the WTC Chair will however be sent to all members
 - To opt out of these you must terminate your membership and this can now also be done through web

IEEE ComSoc Wireless Communications Technical Committee

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 Recognition Award

2018 WTC Award Committee

- Chair: Tarik Taleb (Past Chair of WTC)
 - Current WTC Chair (Shuguang Cui)
 - 2nd Past WTC Chair (Ross Murch)
 - 3rd Past WTC Chair (Sherman Shen)
 - A WTC member representing the WTC membership (Junshan Zhang)



◆ 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

- Nomination is solicited from the WTC members annually. The nomination should include a (short) sentence for "what service or accomplishment" the person is nominated for and a one page supporting material. Additionally, 2 letters supporting the nomination may be sent to the WTC Award Committee Chair.

2018 closing date for nominations: Oct. 19, 2018

WTC Recognition Award – Past Recipients

- ◆ 2017 Prof. Robert Schober, FAU, Germany; Prof. Mohsen Guizani, Univ. of Idaho, USA
- ◆ 2016 Prof. Junshan Zhang, ASU, USA; Prof. Mohamed-Slim Alouini, KAUST, Saudi Arabia
- ◆ 2015 Prof. Romano P. Fantacci, Florence University, Italy; Prof. Chengshan Xiao, Missouri Univ. of Science and Technology, USA
- ◆ 2014 Prof. Yuguang “Michael” Fang, University of Florida, USA ;2014 Prof. Gerhard P. Fettweis, Technische Universität Dresden , Germany
- ◆ 2013 Prof. Geoffrey LI, Georgia Institute of Technology, USA
- ◆ 2012 Prof. Zhi Ding, UC Davis, USA and Prof. Zygmunt J. Haas, Cornell University, USA
- ◆ 2011 Prof. Kwang-Cheng Chen., National Taiwan Univ., Taiwan and Prof. Khaled B. Letaief, HKUST, Hong Kong, China
- ◆ 2010 Prof. Leonard J. Cimini Jr., University of Delaware, USA and Prof. H. Vincent Poor, Princeton University, USA
- ◆ 2009: Prof. Jerry Gibson, University of California, Santa Barbara, USA and Prof. Andrea Goldsmith, Stanford University, USA
- ◆ 2008: Prof. David Falconer, University of Carleton, Canada and Prof. Ted Rappaport, University of Texas at Austin, USA
- ◆ 2007: Prof. Lajos Hanzo, University of Southampton, UK and Prof. Gordon Stuber, Georgia Institute of Technology, USA
- ◆ 2006: Prof. Vijay Bhargava, University of British Columbia, Vancouver, Canada and Prof. Robert De Marca, CETUC, Pontifical Catholic Univ., Rio de Janeiro, BRAZIL
- ◆ 2005: Prof. Hamid Aghvami, King's College, London, UK and Dr. Justin C-I Chuang, Broadcom, USA
- ◆ 2004: Prof. Steve Rappaport, State University of New York, USA
- ◆ 2003: Prof. Ramjee Prasad, University of Aalborg, Denmark
- ◆ 2002: Prof. Elvino S. Sousa, Univ. of Toronto, Canada & Prof. Imrich Chlamtac, Univ. of Texas at Dallas, USA



**The IEEE Wireless Communications Technical Committee (WTC)
is proud to present the 2018 WTC Recognition Award to**

Professor Halim Yanikomeroglu

**for his outstanding technical contributions in the field and
for his service to the scientific and engineering communities**

**Shuguang Cui
IEEE WTC Chair
December 2018**

**Tarik Taleb
WTC Award Committee Chair
December 2018**



WTC Recognition Award Winner (1): Halim Yanikomeroglu

Dr. Yanikomeroglu is a full professor in the Department of Systems and Computer Engineering at Carleton University, Canada. He has made substantial contributions to wireless research, innovation, and education. He has been a very active and exemplary member of IEEE, ComSoc, and Wireless Communications Technical Committee; he has served in these platforms in almost every capacity.

Dr. Yanikomeroglu has had extensive collaboration with industry and led large-scale research projects. His collaborative research resulted in 25 granted patents (plus about a dozen applied). In the previous decade, he participated in the EUWINNER Project, which was at the time world's largest collaborative research project in wireless with 40 partners from academia and industry. The WINNER Project (including Dr. Yanikomeroglu's work on wireless relaying and intercell interference coordination technologies) had substantial impact to the **4G** LTE standardization. More recently, he led a 5-year project which was one of the largest pre-standards **5G** research projects, sponsored by the industry and the Ontario government. In 2019, Dr. Yanikomeroglu plans to initiate another large-scale project with the theme "integrated aerial-terrestrial **6G** network architecture for 2030s". Dr. Yanikomeroglu has coauthored 360 peer-reviewed research papers including 120 in the IEEE journals; these publications have received 11,000 citations including very many in patent applications.





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Professor Robert Heath

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**Shuguang Cui
IEEE WTC Chair
December 2018**

**Tarik Taleb
WTC Award Committee Chair
December 2018**



WTC Recognition Award Winner (2): Robert Heath

Dr. Heath is a Cullen Trust Endowed Professor in the [Department of Electrical and Computer Engineering](#) at [The University of Texas at Austin](#). His research expertise is at the intersection of wireless communication, signal processing, applied math, and communication theory. He has an active research program in all aspects of MIMO (multiple-input multiple-output) communication including multiuser MIMO, massive MIMO, MIMO cellular networks, and MIMO ad hoc networks. At present He is focusing on millimeter wave communication, with applications to cellular, ad hoc, wearable, vehicular, and local area networks. He teaches courses at both the undergraduate and the graduate level on topics such as wireless communication, digital signal processing, statistical signal processing, and multiple antenna communication methods. Of particular interest, he has developed a complete Wireless Communications Laboratory course with lecture notes, textbook, and experiments, [now available for the USRP platform](#). Lectures and lecture notes are [available](#) as well. He enjoys participating and interacting with industry and government through sponsored research, standards participation, and [consulting](#).



WTC Distinguished Young Researcher Award

- ◆ Call for Nomination will be out in early 2019
- ◆ Results will be announced in ICC 2019



Update of WTC Activities

WTC Endorsement of Conferences

1. For ComSoc technical sponsorship, TC endorsement is usually required
2. For WTC to endorse a conference
 - The conference should be relevant to WTC
 - At least three WTC members should be involved in the conferences TPC
 - The conference shall enjoy a good reputation among the community
3. WTC has endorsed multiple conferences in the past year



Endorsed Major Events in 2017/2018

- ◆ International Conference on Telecommunications (ICT 2017)
- ◆ International Conference on COMmunication Systems & NETworkS (COMSNETS 2017)
- ◆ International Conference on Military Communications and Information Systems (ICMCIS2017)
- ◆ IEEE Conference on Microwaves, Communications, Antennas, Electronic Systems and Bio-Medical Engineering (COMCAS 2017)
- ◆ The 23rd Asia Pacific Conference on Communications (APCC 2017)
- ◆ International Conference on Wireless Communications and Signal Processing (WCSP 2018)
- ◆ International Symposium on Wireless Communication Systems (ISWCS 2018)
- ◆ IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE 2018)



Update of WTC Activities

Nomination for Symposium Co-Chairs of ICC and Globecom

Nominations have already been made up to Globecom 2020

- Five nominations were made from WTC

Let one of the WTC officers know so we can consider you in future requests

WTC Other Accomplishment:

- ◆ Endorsement for IEEE Fellow:
 - One endorsement (one successful)

- ◆ Nomination for ComSoc Distinguished Lecturers:
 - WTC: Five nominations (all successful)

WTC ML & Website

- **Website:**
 - <http://wtc.committees.comsoc.org/>

- ***Mailing List:***
 - *Size: 1577 subscribers.*
 - *ieeewtc@comsoc.org*
 - *To subscribe:*
 - <http://wtc.committees.comsoc.org/mailling-list/>

Important News from TEAC

◆ ETC

- Refining the bylaws for ETC
- Molecular and Biology Communication elevated to TC
- Smart Grid Comm elevated to TC

◆ Education

- 2019 ComSoc Summer School, Austin, TX, sponsored by National Instruments
- New: Embed a one-day school program in WCNC 2019

◆ ComSoc Distinguished Lecturer finalized

◆ Fellow Committee: 91 nominees, 29 successful

WTC Representatives

- ◆ Standards Liaison (two-year term)
 - Representative: Kome Oteri, InterDigital, USA

- ◆ Student Competition (two-year term)
 - Representative: Prof. Chuan Huang, University of Electronic Science and Technology, China

New Officer (2019~2020 term) Election

- ◆ Nomination call ended on 11/25/2018

- ◆ Three nominations received and validated by the election committee
 - **Chair:** Wei Zhang, The University of New South Wales, Australia
 - **Vice Chair:** Bechir Hamdaoui, Oregon State University
 - **Secretary:** Yue Gao, Queen Mary University of London

- ◆ Voting members:

Voting member: A WTC voting member shall be an *active* member of the WTC, or a past WTC officer, or a winner of WTC Recognition Award. In addition to the above, a WTC voting member must be an IEEE Communications Society member, or an IEEE Communications Society student member.

Any other Business?

Thank You!