

IEEE COMMUNICATIONS SOCIETY
Wireless Communications Technical Committee (WTC)

GC 2015

San Diego, USA

Ballroom C, Omni San Diego Hotel

Tuesday, December 8, 2015

12:30 pm– 2:00pm

Agenda

- ◆ Lunch & Networking
- ◆ Approval of the Agenda
- ◆ Approval of last WTC meeting minute
- ◆ Updates on WTC Activities
- ◆ Updates on WTC new ML and new Website
- ◆ Updates from TAC
- ◆ WTC Recognition Award
- ◆ Updates on WTC newsletters
- ◆ WTC Lightning talks
 - Intro to **Big Data STC** – Prof. Jie Li, University of Tsukuba, Japan
 - Intro to **Tactile Internet STC** – Dr. Meryem Simsek, TU Dresden, Germany
- ◆ Any other business

Minutes of WTC meeting held at ICC 2015 (1/2)

- ◆ 12:50 WTC meeting commencement
- ◆ Approval of last meeting minute. Approved.
- ◆ Explanation of proposed changes of P&P (Wei)
- ◆ Approval of the updated P&P.
 - Motion approved and seconded by Jeff Andrews & Roberto De
- ◆ Marca, respectively.
 - Updated P&P unanimously approved.
- ◆ Explanation of WTC membership, Active Membership, Voting
- ◆ Membership (Tarik)
 - Signing up on the attendance sheet does not qualify one to be a WTC member; rather subscribing online to the mailing list does.
 - A member becomes an active member if he/she has attended (physically present or by teleconference) two or more of the prior five regularly scheduled WTC meetings. The attendance list is available at the WTC website.
 - 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.
- ◆ WTC Newsletters (Bechir Hamdaoui)
 - Editor: Prof. Bechir Hamdaoui, Oregon State University, USA
 - To be issued prior to every ICC and Globecom WTC meeting.
 - Inaugural edition: Sent out to the Mailing List, also posted on the
- ◆ WTC website
 - All are invited to contribute; by contacting Prof. Hamdaoui at hamdaoui@eecs.oregonstate.edu
- ◆ Explanation of New host of Mailing list and website (Wei)
- ◆ Update of WTC activities
- ◆ Report on Nomination for Co---Chairs of ICC and Globecom
- ◆ Report on Endorsement of IEEE Fellows and DLTs

- ◆ TAC Updates: **Minutes of WTC meeting held at ICC 2015 (2/2)**
 - Summer School Initiative
 - Three new sub---committee proposals; Backhaul Networking,
- ◆ Quantum Comm. and Info. Technology, and Tactile Internet
- ◆ WTC Certification of Appreciation (Ross Murch, past WTC chair, presented certificates)
 - Prof. Abd---Elhamid M. Taha, Alfaisal University, Saudi Arabia, for serving as WTC ComSoc Student Competition Representative, July
- ◆ 2013---June 2015
 - Dr. Sumei SUN, Institute for Infocomm Research, Singapore, for serving as WTC Standards Liaison for ComSoc, July 2013---June 2015
- ◆ New Appointments for Student Competition, Standards Liaison
 - Dr. Zouheir Rezki, KAUST University, Saudi Arabia, appointed as “WTC ComSoc Student Competition Representative” for the period of July 2015---June 2017
 - Dr. Anass Benjebour, NTT DOCOMO, Japan, appointed as “WTC
- ◆ Standards Liaison for ComSoc” for the period of July 2015---June 2017
- ◆ Open Discussion
 - LinkedIn WTC group.
 - Overall positive feedback.
 - To be created by Prof. Hamdaoui
 - Better usage of WTC meeting time
 - Inviting speakers to deliver a short talk
 - Talks should not be too technical. (Matthew Valenti).
 - Not technical talk, but future development of WTC. (Ross Murch)
 - Summarize our papers and what trend of the research (Bechir).
 - Overview talk to everyone. (Zhi Ding).
 - WTC story and history. (Ross)
 - Ten years of the research ahead (Mao).
 - Inviting chairs of sub---committees to introduce the objectives of their sub---committees to the WTC members (Hamid Aghvami)
 - We empower the officers to decide the meeting depending on the length of agenda (Justin Chuang).

Our WTC

1. Website: <http://wtc.committees.comsoc.org/>
2. *1397 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.

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
 - Three WTC members should be involved in the conferences TPC
 - The conference shall enjoy a good reputation among the community
3. WTC has endorsed five conferences so far (i.e., ICTC'16, ICT'16, COMSNETS'16, ISWCS'16, WCSP'15, I4CS'15)

Update of WTC Activities

Nomination for Symposium Co-Chairs of ICC and Globecom

1. Nominations have been already made up to GC 2017
 - Signal Processing for Communications Symposium
 - Wireless Communications Symposium
 - Mobile and Wireless Networking Symposium
 - Ad-hoc and Sensor Networking Symposium
 - Communication Theory Symposium
 - Cognitive Radio and Networks Symposium
2. If you are interested in co-chairing future conferences, please let one of the WTC officers know so we can consider you in future requests

WTC Other Accomplishment:

◆ Endorsement for IEEE Fellow:

- WTC endorsed several active members for IEEE Fellow (3 in 2015).

◆ Nomination for ComSoc Distinguished Lecturers:

- In 2015, WTC nominated 4 DL
- For 2016, nominations will be called for by email usually by early August

WTC ML & Website

- **Website:**

- *New: <http://wtc.committees.comsoc.org/>*
- *Old: <http://bbcr.uwaterloo.ca/~wtc/>*
 - *Will be shutdown soon*

- **Mailing List:**

- *Size: 1397 subscribers.*
- *New: ieeewtc@comsoc.org*
- *Old: WTC.Mail@bbcr.uwaterloo.ca*
 - *Will be disabled by end of this year*
- *To subscribe:*
 - <http://wtc.committees.comsoc.org/mailling-list/>

Important News from TAC

◆ Awards

- Career, Service, and Education awards
- Winners honored in GC'15

◆ Education Activities

- ABET accreditation of Telecommunications Engineering
- Feature series on Education & Training in Com. Magazine twice each year
- Special technical sessions on Education & Training at ICC and GLOBECOM
- Implementing a publicly-available platform for educational activities
- Course development
- 3 new courses were developed in 2014-15
 - 5G online course, Mobility Protocols, and Big Data
- 3 more new courses approved
 - IoT, Intro to WiFi, Satellite, Tactile Internet, etc

◆ Summer School

- 1st ComSoc student summer school in Trento, July 6-9, 2015 organized by Fabrizio Granelli
- Invited speakers include Andrea Goldsmith, Nelson Fonseca, Giuseppe Bianchi, Lajos Hanzo, and Antonio Capone.

◆ Fellow

- Received 88 fellow nominations this year (101 in 2014- a record!)
- 34 new ComSoc Fellows (12 from Industry- 35.3%)

◆ BoG Restructuring

WTC Recognition Award

2015 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

- Nomination will be 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.

2015 closing date for nominations: October 5, 2015

5 nominations received

2015 WTC Recognition Award Committee

- Chair: Ross Murch (Past Chair of WTC)
- Current WTC Chair (Tarik Taleb)
- 2nd Past WTC Chair (Sherman Shen)
- 3rd Past WTC Chair (Mohsen Guizani)
- A WTC member representing the WTC membership (Michael Fang)

WTC Recognition Award – Past Recipients

- ◆ 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, University of Toronto, Canada and Prof. Imrich Chlamtac, University of Texas at Dallas, USA

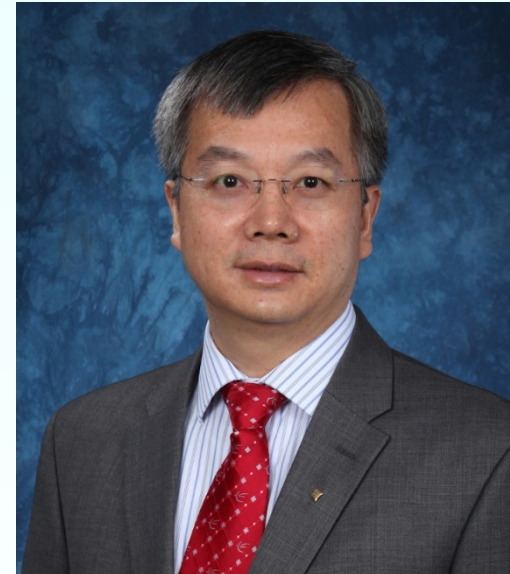
2015 Winners

2015 WTC Recognition Award Winners

Prof. Romano P. Fantacci
Florence University, Italy



Prof. Chengshan Xiao
Missouri Univ. of Science
and Technology, USA



2015 WTC Recognition Award Winners

**Prof. Romano P. Fantacci
Florence University, Italy**



Brief Biography

- ◆ **Dr. Romano P. Fantacci** is a professor of Computer Networks at the University of Florence, Florence, Italy, where he heads the Wireless Networks Research Lab.. He is the founding director of the Information Communication Technology Inc. (TiCOM), with Finmeccanica spa and of the Wireless Communications Research Centre (LiRS) with Telecom Italia. He received the M.S. degree in Electrical Engineering from the University of Florence, Italy and the Ph.D. degree in Computer Networks from the University of Padua, Italy. His current research interests encompass several fields of wireless engineering and computer communication networking including, in particular, performance evaluation and optimization of wireless networks, emerging generations of wireless standards and cognitive wireless communications and networks. Dr. Fantacci was elected Fellow of the IEEE in 2005 for contributions to wireless communication networks. He received several awards for his research, including the IEE Benefactor Premium, the IEEE Distinguished Contributions to Satellite Communications Award, the IEEE sister society AEIT Young Research Award and the IARIA Best Paper Award. He served as Area Editor for IEEE Trans. Wireless Commun., Associate Editor for IEEE Trans. on Commun., IEEE Trans. Wireless Commun. and Associate Editor for Telecommunications Systems. He guest edited special issues for IEEE Journals and Magazines and served as symposium chair of several IEEE conferences, including VTC, WCNC, PIRMC, ICC and Globecom. Dr. Fantacci currently serves on the Board of Governors of the IEEE sister society AEIT and on the Advisory Board of Security and Communication Networks J., as well as Associate Editor for International J. Commun. Systems, Regional Editor for IET Communications and Associate Editor for IEEE Networks.



**The IEEE Wireless Communications Technical Committee (WTC)
is proud to present the 2015 WTC Recognition Award to**

Professor Romano P. Fantacci

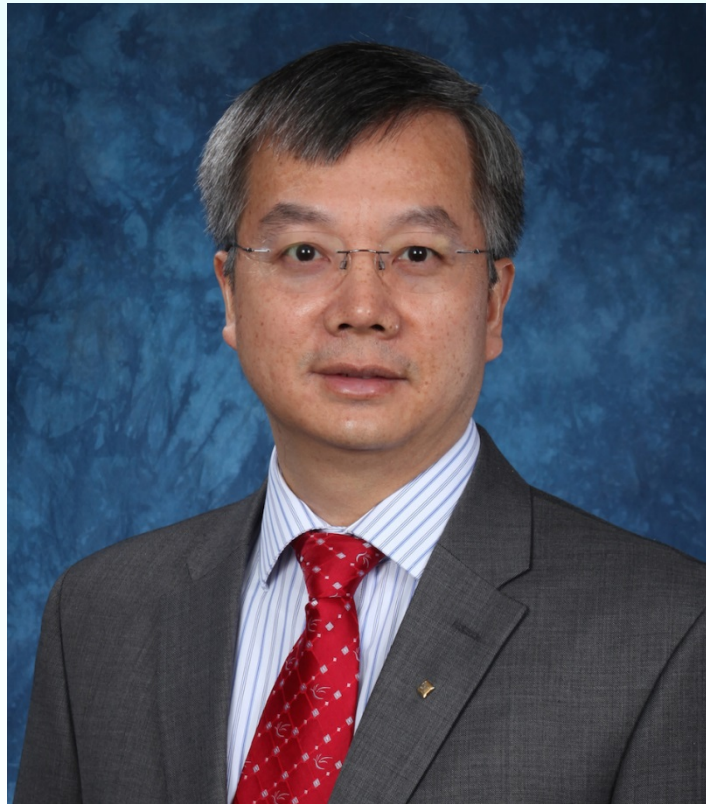
**for his outstanding technical contributions in the field and
for his service to the scientific and engineering communities**

**Tarik Taleb
IEEE WTC Chair
December 2015**

**Ross Murch
WTC Award Committee Chair
December 2015**

2015 WTC Recognition Award Winners

Professor Chengshan Xiao
Missouri University of Science and Technology, USA



Brief Biography

- ◆ **Chengshan Xiao** (M'99-SM'02-F'10) earned a Bachelor of Science degree in electronic engineering from the University of Electronic Science and Technology of China in 1987, a Master of Science degree in electronic engineering from Tsinghua University in 1989, and a Ph.D. in electrical engineering from the University of Sydney in 1997. Dr. Xiao is a Professor with the Department of Electrical and Computer Engineering at Missouri University of Science and Technology, Rolla, MO (formerly the University of Missouri - Rolla). He is currently serving as a Program Director at USA National Science Foundation through intergovernmental personnel act assignment. Previously, he was a senior member of scientific staff with Nortel Networks, Ottawa, Canada, a faculty member at Tsinghua University, Beijing, China, the University of Alberta, Edmonton, Canada, and the University of Missouri - Columbia, MO. He also held visiting professor positions in Germany and Hong Kong. His research interests include wireless communications, signal processing, and underwater acoustic communications. He is the holder of three U.S. patents. His invented algorithms have been implemented into Nortel's base station radio products after successful technical field trials and network integration. Dr. Xiao is the Director of Conference Publications of IEEE Communications Society (ComSoc), and a member of IEEE ComSoc Fellow Evaluation Committee. Previously, he served as an elected member of IEEE ComSoc Board of Governors, a Distinguished Lecturer of both IEEE ComSoc and IEEE Vehicular Technology Society. He also served as an Editor, an Area Editor and the Editor-in-Chief of the IEEE Transactions on Wireless Communications, an Associate Editor of the IEEE Transactions on Vehicular Technology, and the IEEE Transactions on Circuits and Systems-I. He was the Technical Program Chair of the 2010 IEEE International Conference on Communications, Cape Town, South Africa. He served as the founding Chair of the IEEE Technical Committee on Wireless Communications. He is a recipient of the 2014 Humboldt Research Award from the Alexander von Humboldt Foundation, and the recipient of the 2014 Joseph LoCicero Award from IEEE Communications Society.



**The IEEE Wireless Communications Technical Committee (WTC)
is proud to present the 2015 WTC Recognition Award to**

Professor Chengshan Xiao

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

**Tarik Taleb
IEEE WTC Chair
December 2015**

**Ross Murch
WTC Award Committee Chair
December 2015**

WTC Newsletters

WTC Newsletters

- **Editor**
 - Prof. Bechir Hamdaoui, Oregon State University, USA
 - Email: hamdaoui@eecs.oregonstate.edu
- ***Twice a year***
 - *To be issued prior to every ICC and Globecom WTC meeting.*
- ***All editions***
 - *Sent out to the Mailing List*
 - *Posted on the WTC website*
- ***All are invited to contribute***
 - *If interested in sending info to the newsletter, please contact Prof. Hamdaoui at hamdaoui@eecs.oregonstate.edu*

WTC Lightning Talks

WTC Lightning Talks

- ◆ Intro to **Big Data STC** – Prof. Jie Li, University of Tsukuba, Japan
- ◆ Intro to **Tactile Internet STC** – Dr. Meryem Simsek, TU Dresden, Germany

Any other Business?

Thank You!

Next WTC meeting will be held at ICC
2016 in Kuala Lumpur, Malaysia