

**Communications Switching and Routing Technical Committee
(TC-CSR) Meeting Minutes
(To be approved at Globecom 2018)
Meeting at ICC 2018, Kansas City, MO, USA
Location: Roanoke Meeting room/Ballroom Level/Westin Hotel
17:30 – 19: 00 May 21, 2018**

The TC-CSR bi-annual meeting was held during ICC 2018 on Tuesday, May 21, 2018 in Hotel Westin Hotel, Kansas City, MO, USA. The meeting started at 5:30pm and adjourned at 7:30pm. The current TC Chair Dr. Jun Zheng chaired the meeting. Dr. Scott Fowler recorded the meeting minutes.

1. Welcome and Introduction

The Chair, Dr. Jun Zheng, opened the meeting and welcomed the attendees. Total of 18 people attended the meeting. The list of people attending the meeting is enclosed at the end of the minutes. A conference call was set up by Dr. Mohammed Atiquzzaman and Dr. Jun Zheng. We had Dr. Lotfi Mhamdi and Dr. Roberto Rojas-Cessa called in.

The Chair proposed the agenda of the meeting, which was accepted by the attendees. The Chair introduced the current TC officers:

- Chair: Jun Zheng
- Vice Chair: Jian Tang
- Secretary: Lotfi Mahamdi
- HPSR Chair: Abbas Jamaliour
- Award and Sponsorship Events Chair: Abdelhamid Mellouk
- Comsoc Student Competition Officer: Roberto Rojas-Cessa
- Standardization Committee Liaison Officers: Nirmala Shenoy & Henry Suthon
- SIG Officer: Scott Fowler
- Newsletter Officer: Lotfi Mahamdi

2. Approval of the TC Meeting Minutes during Globecom 2017

The minutes of the last TC meeting held during ICC2017 was quickly shown by the Chair and was approved by all attendees. The approved minutes are available at the TC-CSR web site:

<http://csr.committees.comsoc.org/>

3. Report from GITC Meeting by the TC Chair

- Discussion about the future ICC/GC:
 - GC'18, Abu Dhabi, UAE, Dec. 9-13, 2018
 - ICC'19, Shanghai, China, May 20-24, 2019
 - GC'19, Hawaii, USA, Dec. 9-13, 2019
 - ICC'20, Dublin, Ireland
 - GC'20, Taipei, Taiwan
 - ICC'21, Montreal, Canada
 - GC'21, Madrid, Spain
 - ICC'22, Seoul, South Korea
 - GC' 22, TBD
 - ICC'23, Rome, Italy

- Report from TAEC:
 - Each ComSoc TC will go to a recertification process every three years. CSR TC will go to the recertification process this year.
 - A self-evaluation report was prepared and sent to the Technical Services Board of TEAC last year.
 - Notification of TC recertification was received from Chair of TEAC in March this year.
 - Call for Activity Information was sent to the TC mailing list and to TC members individually to collect relevant information and inputs.
 - The TC recertification questionnaire was submitted to Chair of TEAC on May 18, 2018.

- Information, activities, and contributions important to TC recertification:
 - Website and clear charter/P&P;
 - Clear definition of active TC members;
 - Conference and publications;
 - Standard/industry involvement;
 - Newsletter and special interest groups (SIGs);
 - TC members having advanced for DL, IEEE SM or IEEE Fellows in the last 3 years
 - Others

4. The newsletter report by Lotfi Mhamdi

- The Newsletter has been proposed and approved and initiated the CSR-TC meetings in ICC'17, Paris and Globecom'18, Singapore.
- A means of sharing news, information and communications amongst members of the CSR and beyond.
- Open to everybody to contribute.
- Approximately 2 issues per year.
- First issue this week!
- Potential content

Inside This Issue

1	Preface
1	TC-CSR
2	Committee
2	Committee Meetings
3	Activities
3	Members News
4	Upcoming Events
4	Announcements

- Newsletter content
 - Fix (almost) content/sections: Preface, TC-Meetings, committees, etc.
 - Variable content: Contributions of the TC members, news, events, etc. -> Contributions Needed here

- **TC-Website by Lotfi Mhamdi**
 - The website has been updated (committees)
 - A Newsletter link/tab is to be added (replace the “News” tab). To go live soon after ICC

5. Discussion about the Special Interest Groups (SIGs) by Scott Fowler

- The TC CSR done a lot of work to refresh and consolidate related topics
 - New step is the creating of Special Interest Groups (SIGs)
- Example
Special Interest Groups

The TC-CSR have the following established Special Interest Groups (SIGs):

- IEEE SIG on “Smart Building Environment” (SBE).

Apply for SIG please contact SIG coordinator is Scott Fowler, Linkoping University, Sweden, scott.fowler@liu.se

IEEE SIG on “Smart Building Environment” (SBP)

Coordinator: Dr. Scott Fowler, scott.fowler@liu.se and Professor Martin Rudberg, martin.rudberg@liu.se

Address new trends on ICT to be used in the Construction Logistics for Smart Cities.

Website:

- Request for more Special Interest Groups sent out.
- The TC-CSR will need to approve the SIG when a request is submitted.

6. Report about the ComSoc student competition 2017/2018 by Roberto Rojas-Cessa

- **Information on the event at GC’17**
 - **Author Eligibility:** Student member or Graduate Student Member of IEEE Communications Society. Or team with either student members or non-members, but led by a student member. Age 18+.
 - **Topic Eligibility:** Communications Area
 - **Scoring criteria (5):** Social impact, Technical content, Originality, Practical Applicability and Results, Quality of Presentation.
 - **Selection Committee:** 43 members (+2 officers)
 - **Eligible submissions received: 23**
 - **Prizes awarded in Globecom 2017**
 - **Awards:** 1 prize: \$2000 + plaque, 2nd prize: \$1000 +plaque
 - More information: <https://www.comsoc.org/communications-technology-changing-world>
- **2018 Competition** status: to be open

7. Report about TC-standardization liaison by Nirmala Shenoy

- Sponsors and Chairs
 - COM/DySPAN-SC - Hiroshi Harada
 - COM/PLC - Jean Philippe Faure
 - COM/NetSoft - Mehmet Ulema
 - COM/GreenICT - Jaafar Elmoghani
 - COM/MobiNet- Oliver Holland
 - COM/EdgeCloud - Rob Fish
 - COM/AccessCore - Alex Gelman
 - COM/SDB - Mehmet Ulema

COM/DySPAN-SC: Chair Hiroshi Harada

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
White Space Radio	COM/DySPAN-SC/DYSPAN-1900.7	1900.7	Stanislav Filin
DYSPAN - Terms, Definitions and Concepts for Spectrum Management Working Group	COM/DySPAN-SC/DYSPAN-1900.1WG	1900.1, 1901.a, P1901.1	Francesco Benedetto
In-Band, Adjacent Band Interference and Coexistence Working Group	COM/DySPAN-SC/DYSPAN-1900.2WG	1900.2	H Stephen Berger
Architecture and Enablers for Optimised Radio & Spectrum resource usage	COM/DySPAN-SC/DYSPAN-P1900.4	1900.4, 1904.1, 1904.1a	Masayuki Ariyoshi
Policy Language and Architectures for Managing Cognitive Radio for Dynamic Spectrum Access Applications	COM/DySPAN-SC/DYSPAN-P1900.5	1900.5, P1901.5.1, P1900.5.2	Matthew Sherman
Spectrum Sensing in Advanced Radio Systems	COM/DySPAN-SC/DYSPAN-P1900.6	1900.6, 1900.6Cor1, 1900.6a, P1900.6b	Oliver Holland

COM/PLC: Chair - Jean Philippe Faure

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Broadband Over Power Lines PHY/MAC	COM/PLC/BPLPHMAC	1901	Jean Philippe Faure
Convergent Digital Home Network	COM/PLC/CDHN	1905.1, 1905.1a	Purva Rajkoti
Low Frequency NarrowBand PLC	COM/PLC/LF NB PLC	1901.2, 1901.2a	James Leclare
Smart Grid Communications Equipment	COM/PLC/P1909.1	1909.1	Aaron Viner
Smart Energy Profile 2.0	COM/PLC/SEP2	2030.5, P2030.5	Robert Heile
Smart Grid Powerline Communication	COM/PLC/SGPLC	P1901.1, P1901.1.1	Oleg Logvinov
PLCEquipment - Electromagnetic Compatibility (EMC) Requirements - Testing and Measurement Methods	COM/PLC/EMC	1775	Aaron Viner

COM/NetSoft:Chair- Mehmet Ulema

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Next-Generation Service Overlay Networks (NGSON)	COM/NetSoft-SC/1903_WG	1903, P1903.1, P1903.2, P1903.3	Mehmet Ulema
Software-Defined Quantum Communication	COM/NetSoft-SC/QuantumComm	P1913.1	Stephen Bush
Security for Virtualized Environments	COM/NetSoft-SC/SVE	P1915.1	Anton Kaska
Performance for Virtualized Environments	COM/SNetSoft-SC/PVE	P1916.1	Mohammad Asad Rehman Chaudhry
Reliability for Virtualized Environments	COM/NetSoft-SC/RVE	P1917.1	Jason Rupe
Software-Defined Networking Bootstrapping Procedures	COM/NetSoft-SC/SDNBP	P1921.1	Christian Jaquenet
SDN based Middleware for Control and Management of Networks	COM/NetSoft-SC/SDN-MCM	P1930.1	Pranav Jha

COM/GreenICT:Chair - Jaafar Elmirghani

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
GICT Emissions	COM/GreenICT-SC/GICT	P1922.1	Mohamed Cheriet
Energy Efficient Comm Hardware	COM/GreenICT-SC/EECH	P1923.1, P1924.1	Earl McCune
Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Next Generation Fronthaul Interface	COM/MobiNet-SC/NGFI	P1914.1, P1914.3	Jinri Huang
Tactile Internet	COM/MobiNet-SC/TI	P1918.1, P1918.1.1	Oliver Holland
Aerial Communications and Networking Standards	COM/MobiNet-SC/AerialNetworks	P1920.1	Kameswara Rao Namuduri
ROOF Computing	COM/MobiNet-SC/ROOF	P1931.1	Syam Madanapalli
Licensed/Unlicensed Spectrum Interoperability in wireless mobile networks	COM/MobiNet-SC/LUI	P1932.1	Anwer Al-Dulaimi
Hybrid ARQ for High Throughput Applications	COM/MobiNet-SC/HARQ	P1933.1	Mohammed Jabi

COM/EdgeCloud: Chair - Rob Fish

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Biometrics Open Protocol	COM/EdgeCloud-SC/BOP	2410	Scott Streit
Privacy and Security Architecture for Consumer Wireless Devices	COM/EdgeCloud-SC/P1912 WG	P1912.1	William Scheible
Nanoscale and Molecular Communications	COM/EdgeCloud-SC/NanoCom	1906.1, P1906.1.1	Stephen Bush
Fog Computing and Networking Working Group	COM/EdgeCloud-SC/FOG	P1934	John Zao

COM/AccessCore: Chair - Alex Gelman

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Access Networks Working Group	COM/AccessCore-SC/1904_WG	1904.1, 1904.2, 1904.1-01, 1904.1-02, 1904.1-03	Glen Kramer
HDBaseT 5Play Working Group	COM/AccessCore-SC/HDBT5	P1911.3	Ariel Soberman
Loop-Free Switching and Routing	COM/AccessCore-SC/1910 WG	P1910.1	Nirmala Shenoy

COM/SDB: Chair - Mehmet Ulema

Working Groups WGs (Full Names)	WGs (Short Names)	Standards*, Projects**	Chairs
Working Group on Communication Electroacoustics	COM/SDB/CEA	1652, 661, 1329, 269a, P269,	John Bareham
Smart Cities Technology Framework	COM/SDB/SCTech	P2784	Zach Huhn
Indic Virtual Keyboards	COM/SDB/IndicKeyboard	P1908.1	Chavala Rao

Communications Standards Magazine

- Subscribe
- Propose
 - Standard related feature topics
 - Submit papers

8. Reports about HPSR (Nirwan Ansari), presented by Stefano Giordano

- Date: May 26-29, 2019, which is the week following ICC 2019 held in Shanghai, so that one trip to China is worth attending the two conferences.
- TPC Chairs:
 - Guido Maier (Politecnico di Milano, Milano, Italy)
 - Xiaohong Jiang (Future University, Hakodate, Japan)
 - Martin Maier (Institut National de la Recherche Scientifique, Montreal, Canada)
- Location:
 - A four-star hotel inside the historical City Wall of Xi'An
- Remarks:

The social program we are preparing will be outstanding. Attending HPSR 2019 will give the chance of visiting "Terracotta warriors", a collection of thousands of terracotta sculptures depicting the armies of Qin Shi Huang, the first Emperor of China, buried with him in 210 BC. They were discovered only 50 years ago. Somebody says this is the eighth wonder of the world. Call for paper will be distributed at HPSR 2018 in Bucharest.

9. Reports about recent GC and ICC

- CSR TC traditionally sponsors three ICC/GLOBECOM symposia:
 - Next Generation Networks and Internet
 - Optical Networks and Systems
 - Mobile and Wireless Networking
- NEXT GENERATION NETWORKING AND INTERNET SYMPOSIUM@ICC 2018 (Kansas City, USA)
 - *Pascal Lorenz, University of Haute Alsace, France*
 - *Wei Wang, San Diego State University, USA*
 - *Shuai Han, Harbin Institute of Technology, China*
 - *Michele Nogueira, Federal University of Parana, Brazil*
 - Statistics:
 - No. of papers submitted: 196
 - No. of papers accepted: 78
 - No. of sessions: 11+1 interactive
 - Acceptance ratio: 39.80%

- **OPTICAL NETWORKS AND SYSTEMS SYMPOSIUM @ICC 2018** (Kansas City, USA)
 - *Tarek El-Bawab, Jackson State University, USA*
 - *Nasir Ghani, University of South Florida, USA*
 - Statistics:
 - No. of papers submitted: 75
 - No. of papers accepted: 30
 - No. of sessions: 5
 - Acceptance ratio: 40%

- **WIRELESS NETWORKING SYMPOSIUM@ICC 2018** (Kansas City, USA)
 - *Azzedine Boukeche, University of Ottawa, Canada*
 - *Frank Li, University of Agder, Norway*
 - *Min Sheng, Xidian University, China*
 - *Yong Li, Tsinghua University, China*
 - Statistics:
 - No. of papers submitted: 190
 - No. of papers accepted: 76
 - Acceptance ratio: 40%

- **NEXT GENERATION NETWORKING AND INTERNET SYMPOSIUM@GLOBECOM 2018** (Abu Dhabi, UAE)
 - *Abdelhamid Mellouk, Université Paris-Est Créteil, France*
 - *Hongbin Luo, Beijing Jiatong University, China*
 - *Periklis Chatzimisios, ATEITHE, Greece & Bournemouth University*
 - Statistics:
 - No. of papers submitted: 231 (a very high number)
 - Papers are under review

- **OPTICAL NETWORKS AND SYSTEMS SYMPOSIUM @GLOBECOM 2018** (Abu Dhabi, UAE)
 - *Xavi Masip-Bruin, Universitat Politècnica de Catalunya, Italy*
 - *Hakki Cankaya, Fujitsu Network Communications Inc. USA*
 - Statistics:
 - No. of papers submitted: 68
 - Papers are under review

- **Mobile and WIRELESS NETWORKING SYMPOSIUM @GLOBECOM 2018** (Abu Dhabi, UAE)
 - *Jun Zheng, Southeast University, China*
 - *Adlen Ksentini, Eurecom, France*
 - *Sami Muhaidat, Khalifa University*
 - *Konstantinos Samdanis, Huawei Tech., Germany*
 - Statistics:
 - No. of papers submitted: 255

- Papers are under review

❑ ICC 2019 (Shanghai, China)

- Next Generation Networking and Internet Symposium
 - *Stefano Secci, UPMC Sorbonne, France*
 - *Miao Zhao, Hong Kong Polytechnic University, China*
 - *Rami Langar, UPEM, France*
- Optical Networks and Systems Symposium
 - *Scott Fowler, Linköping University, Sweden*
 - *Xiaojun (Matt) Cao, Georgia State University, USA*
- Mobile and WIRELESS NETWORKING SYMPOSIUM
 - *Mianxiong Dong, Muroran Institute of Technology, Japan*
 - *Ye Li, Nantong University, China*
 - *Noriaki Kamiyama, Fukuoka University, Japan*
 - *Wei Chen, Tsinghua University, China*

❑ GLOBECOM 2019 (Hawaii, USA)

- Next Generation Networking and Internet Symposium
 - *Laurent Ciavaglia, Nokia Bell Labs, France*
 - *Luca Foschini, Università di Bologna, Italy*
 - *Alessio Botta, University of Napoli Federico II, Italy*
- Optical Networks and Systems Symposium
 - *Reza Nejabati, University of Bristol, UK*
 - *Mohan Gurusamy, National University of Singapore, Singapore*
- Mobile and WIRELESS NETWORKING SYMPOSIUM
 - *Jun Zheng, Southeast University, China*
 - *Qiang Li, Huazhong University of Science and Technology, China*
 - *Lin Bai, Beihang University, China*
 - *Chia-Han Lee, National Chiao Tung University, Taiwan*

❑ ICC 2020 (Dublin, Ireland)

- Request for nominations received from ICC 2020 TPC Chair in January, 2018
- Call for nominations was sent to the CSR TC mailing list in February, 2018
- Three nominations were received and all were nominated to ICC 2020 TPC Chair.
 - *Yusheng Ji* – NGNI Symposium
National Institute of Informatics (NII), Japan
 - *Roberto Rojas-Cessa* – ONS Symposium
New Jersey Institute of Technology, USA
 - *Chi Liu* – MWM Symposium
Beijing Institute of Technology, China

10. Distinguished Technical Achievement Award

- Highlights
 - Established in 2015
 - To recognize ComSoc CSR TC members for their technical contributions in the fields covered by CSR
 - Nominated by CSR TC members
 - Selected by the CSR TC Awards Committee
 - An Award consists of a plaque.
 - Any member of CSR TC is eligible for being nominated.
- Award Winners (2015-2017)
 - 2015: Chunming Qiao, SUNY at Buffalo, USA
 - 2016: Abbas Jamalipour, University of Sydney, Australia
Hussein T. Mouftah, University of Ottawa, Canada
 - 2017: Mohammed Atiquzzaman, University of Oklahoma, USA
 - Andrzej Jajszczyk, AGH University of Science and Technology in Krakow, Poland
 - Guoliang (Larry) Xue, Arizona State University, USA

11. 2018 Distinguished Technical Achievement Award

- Call for Nominations was sent to the TC mailing list in early May.
- Number of nominations received: 1
- The Award committee members:
 - Chair: Abdelhamid Mellouk (France, Europe)
 - Current TC Chair: Jun Zheng (Asia, China)
 - External member: Hossam Hassanein (Canada, America)
- 2018 Winner is **Dr. Nirwan Ansari**, New Jersey Institute of Technology, USA
- The Award will be presented at CSR TC meeting at GC 2018 in Abu Dhabi.

12. Other Business: N/A

13. List of attendees:

Nirwan Ansari	NJIT, USA	ansari@njit.edu
Mohammed Atiquzzaman	University of Oklahoma, USA	atiq@ou.edu
Augusto Casaca	INESC-INOV, Portugal	augusto.casaca@inov.pt
Scott Fowler	Linköping University, Sweden	scott.fowler@ymail.com
Walter Cerroni	University of Bologna, Italy	water.cerroni@unibo.it
Stefano Giordano	University of Pisa, Italy	stefano.giordano@unipi.it
Andrzej Jajszczyk	AGH U. of Science and Technology in Krakow, Poland	jajszczyk@kt.agh.edu.pl

Cheng Li	Memorial University, Canada	licheng@mun.ca
Xilong Liu	NJIT, USA	xl249@njit.edu
Pascal Lorenz	University of Haute Alsace, France	lorenz@ieee.org
Bala Krishna Maddal	GGSIIP University, India	m.bala.krishna@ieee.org
Shiwen Mao	Auburn University	smao@ieee.org
Lotfi Mhamdi	University of Leeds	l.mhamdi@leeds.ac.uk
Amitabh Mishra	University of Delaware, USA	amitabh@udel.edu
Hussein Mouftah	University of Ottawa, Canada	mouftah@uottawa.ca
Mohammad Obaidat	UJ	msobaidat@gmail.com
Joel Rodrigues	INATEL, Brazil	joeljr@ieee.org
Roberto Rojas-Cessa	NJIT, USA	roberto.rojas-cessa@njit.edu
Steve Weinstein	Consultant, USA	s.weinstein@ieee.org
Jun Zheng	Southeast University, China	junzheng@seu.edu.cn

The following members could not dial in because of the conference call system problem:

- 1) Abdelhamid Mellouk, Université Paris-Est Créteil, France, mellouk@u-pec.fr
- 2) Jian Tang, Syracuse University, USA, jtang02@syr.edu