

**Communications Switching and Routing Technical Committee  
(TC-CSR) Meeting Minutes  
(To be approved at ICC2021)  
Meeting at GC 2020  
Location: Online Meeting  
9:00am–11:00am EST, Friday, December 18, 2020**

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**CSR TC Officers:**

Chair: Jian Tang

Vice Chair: Lotfi Mhamd

Secretary: Cheng Li

**Number of Attendees:** 25

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**1. Welcome and Introduction**

The CSR TC Chair, Dr. Jian Tang opened the meeting and welcomed the attendees. A total of 25 people attended the meeting. A round of introduction was conducted for all meeting attendees. The list of people attending the meeting is enclosed at the end of the minutes. Due to Covid-19 pandemic, virtual on-line meeting was used for this TC meeting.

Dr. Larry Xue moved to approve the agenda of the meeting, seconded by Dr. Cheng Li, which was approved unanimously by the attendees.

The Chair introduced the 2020-2021 TC officers:

- Chair: Jian Tang
- Vice Chair: Lotfi Mhamdi
- Secretary: Cheng Li
- HPSR Steering Committee Chair: Abbas Jamalipour
- Award and Sponsorship Events Chair: Jun Zheng
- Comsoc Student Competition Officer: Roberto Rojas-Cessa
- Standardization Committee Liaison Officers: Nirmala Shenoy
- SIG Officer: Scott Fowler
- Newsletter Officer: Lotfi Mhamdi

**2. Approval of the TC Meeting Minutes during ICC2020**

The minutes of the last TC meeting held during ICC 2020 were circulated through the TC mailing list on December 17, 2020, and it was posted on the TC website at: <https://csr.committees.comsoc.org/files/2020/12/ICC-2020-Minutes.pdf>. The last meeting minutes was briefly reviewed by the Chair. It was moved by Dr. Larry Xue and seconded by Dr.

Cheng Li, and was approved unanimously by all attendees through the online vote. The webpage of the CSR TC can be accessed at: <http://csr.committees.comsoc.org/>

### **3. Report from the Chair**

- **IEEE ComSoc Distinguished Lecturer 2021-2022**

The request for IEEE ComSoc Distinguished Lecturer 2021-2022 nominations was received on September 7, 2020. Call for nominations was sent to the CSR TC mailing list on September 19, 2020, followed by several rounds of reminders. Two nominations were received, that includes:

Dr. Cheng Li, Memorial University of Newfoundland, Canada

Dr. Abdelhamid Mellouk, University of Paris-Est Créteil (UPEC), France

- **Globecom 2022 symposium co-chair nomination**

The request for Globecom 2022 symposium co-chair nomination was received on August 21, 2020. Call for nominations was sent to the CSR TC mailing list on September 15, 2020, followed by several rounds of reminders. Three people were nominated for Globecom 2022:

Dr. Kaigui Bian, Peking University, China

Dr. Lotfi Mhamdi, University of Leeds, UK

Dr. Miao Pan, University of Houston, USA

### **4. Report on TC Standardization Activities (by Dr. Nirmala Shenoy)**

Dr. Nirmala Shenoy provided the report on the TC Standardization Activities, mainly from the IEEE COM/AccessCore Standards Committee activities where she has been serving as the secretary for several years. The committee is chaired by Alex Gelman (Netovations, LLC), along with Glen Kramer from Broadcom as the vice chair, and Nirmala Shenoy as the secretary. The committee also has several voting members, along with Jennifer Santulli from the IEEE SA.

Subsequent to the report that was presented at GC'20 meeting, the committee only had one meeting on September 29, 2020. A project from India on Access Services for Rural Area was approved as Project 1941.1\_ver 1.0. The committee is help them preparing the P&P. There are quite a bit activities on UAVs, include moved IEEE 1939.1 draft standard for a framework for Structuring Low Altitude Airspace for Unmanned Aerial Vehicle operations. This is going to sponsor ballot. For project PAR 1904.1 Standard for Management Channel for Customer-Premises Equipment Connected to Ethernet-based Subscriber Access Networks, they have proposed some revision and extension, which was discussed and approved. There are two projects went for ballot and both got approved, that include Project 1937.1 (Chaired by John Lu) and Project 1910.1 'Meshed Tree Bridging for Loop-free forwarding (Chaired by Nirmala Shenoy). There was also a chair election conducted by secretary Nirmala Shenoy. Alex Gelman re-elected as chair again.

The UAV projects and their links can be found at:

- Applications Framework - P1936.1  
[https://standards.ieee.org/project/1936\\_1.html](https://standards.ieee.org/project/1936_1.html)
- Payload Interfaces and Protocols P1937.1, P1937.3  
[https://standards.ieee.org/project/1937\\_1.html](https://standards.ieee.org/project/1937_1.html)
- UAV regulations support - P1939.1  
[https://standards.ieee.org/project/1939\\_1.html](https://standards.ieee.org/project/1939_1.html)

Information on how TC and TC members can be involved in standards are also shared.

### **5. TC Website (by Cheng Li)**

We made a couple of changes to the TC website. The layout of the TC website is updated for easy access of TC information. The TC meeting minutes page is now under Committee/Committee Meetings. The HPSR steering committee membership information is updated. We are looking for suggestions on how to improve the TC Website.

### **6. Special Interest Groups (SIGs, provided by Scott Fowler, chaired by Jian Tang)**

A SIG website is created under the TC website, which was little updated during this period. The TC does not have SIG right now. TC members are encouraged to create SIG with TC-CSR. A number of topics are listed, including:

- Switching and Routing
- Traffic Engineering
- Network Signaling
- Network Software, Hardware, and Middleware
- Packet Network Applications
- Network Processors
- Network and Function Virtualizations
- Data Center Networking and Cloud Computing
- Mobile Networks
- Energy Efficient and Green Networking
- Information Networks

There are some interest on topics include Switching and Routing, and Data Center Networking and Cloud Computing. The process to follow was briefed by Vincent Chan, Comsoc president. It was suggested that ComSoc staff (Cyn) to collect information from TCs and create an inventory of SIG for various TCs. ComSoc is committed to provide resources to support such initiatives.

### **7. Distinguished Technical Achievement Award**

The TC Distinguished Technical Achievement Award was established in 2015 to recognize ComSoc CSR TC members for their technical contributions in the fields covered by CSR. The

candidate will be nominated by CSR TC members. Any member of CSR TC is eligible for being nominated but self-nominations are NOT acceptable. The final awardee is selected by the CSR TC awards committee and presented at the TC-CSR meeting at ICC/Globecom. An award consists of a plaque.

For 2020 Distinguished Technical Achievement Award, a TC awards subcommittee was formed and approved at the TC meeting on July 6, 2020. The call for nominations for the award was sent to the TC-CSR mailing list on Sept. 22, Oct. 13, and Oct. 17, 2020. The criteria for the award were explained in the call. One nomination received: Dr. Abdelhamid Mellouk. The nomination was approved by the TC award subcommittee and finally approved by the ComSoc technical committee director on Dec. 10, 2020. Dr. Abdelhamid Mellouk received the award virtually.

### **8. Distinguished Service Award**

The TC Distinguished Service Award was established in 2014 to recognize ComSoc CSR TC members for their activities and contributions in the fields covered by CSR. The candidate will be nominated by CSR TC members. Any member of CSR TC is eligible for being nominated but self-nominations are NOT acceptable. The final awardee is selected by the CSR TC awards committee and presented at the TC-CSR meeting at ICC/Globecom. An award consists of a plaque.

For 2020 Distinguished Service Award, a TC awards subcommittee was formed and approved at the TC meeting on July 6, 2020. The call for nominations for the award was sent to the TC-CSR mailing list on Sept. 22, Oct. 13, and Oct. 17, 2020. The criteria for the award were explained in the call. One nomination received: Dr. Mohammed Atiquzzaman. The nomination was approved by the TC award subcommittee and finally approved by the ComSoc technical committees director on Dec. 10, 2020. Dr. Mohammed Atiquzzaman received the award virtually.

### **9. Approval of the Awards Subcommittee 2021**

Discussions were conducted regarding the TC council requirements on the Awards Committee. The slate of awards subcommittee roster was approved at the TC meeting:

Chair: Jun Zheng (Past TC Chair)

Members: Nirwan Ansari, New Jersey Institute of Technology

Pascal Lorenz, University of Haute-Alsace

Shiwen Mao, Auburn University

Guoliang (Larry) Xue, Arizona State University (Past TC Chair)

### **10. ComSoc Student Competition 2020 (prepared by Roberto Rojas-Cessa, chair by Jian)**

- ❑ Committee Chairs: Stefano Bregni and Nelson Fonseca, Selection Committee: 51 members
- ❑ 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.
- ❑ Eligible submissions received: 54
- ❑ Prizes awarded in Globecom 2020.
- ❑ Awards: 1 prize: \$2000 + plaque, 2nd prize: \$1000 +plaque
- ❑ <https://www.comsoc.org/communications-technology-changing-world>
- ❑ Prizes awarded in Globecom 2020.
  - **FIRST PRIZE**
    - Microfluidic Networks: the Future of Human Integrated Communication Systems  
HAMIDOVIC Medina Johannes Kepler University Linz Austria
  - **SECOND PRIZE (*ex aequo*)**
    - AirEmergCom: Airborne Emergency Communication System with Millimeter-Wave Beamforming  
ZHU Lipeng Beihang University China
    - Recycling Radio Waves for the Wide Adoption of Precision Agriculture  
VOUGIOUKAS Georgios Technical University of Crete Greece
  - **Honorary Mention**
    - Data Traffic Offloading onto mmWave-Capable UAV ‘Bridges’ in 5G+  
TAFINTSEV Nikita Tampere University Finland
  
    - Endophasia: Utilizing Acoustic-Based Imaging for Issuing Contact-Free Silent Speech Commands  
ZHANG Yongzhao Shanghai Jiao Tong University China
  
    - ProTrack: Proximity Level Tracking based on Passive Wireless Traces along with Mobility Trajectories.  
CHANG Tsung-Yu National Cheng Kung University Taiwan
  
    - H.O.P.E. for COVID - 19 - Hands-Free Operation for Public Elevators M Sundarramurthi  
DAYANANDA SAGAR COLLEGE OF ENGINEERING India

Edge Learning Enabled Resource Efficient Smart Energy Meter  
ROY CHOWDHURY Mayukh Indian Institute of Technology (IIT) Delhi  
India

Trusted Wireless Pollution Monitoring based on Blockchain in City-level  
NB-IoT Networks  
NGUYEN Lam Aalborg University Denmark

Recurrent-based Environmental Adaptive Device-Free Presence Detection for  
Wi-Fi CSI-based Networks  
HUANG Yu-Ming National Chiao Tung University Taiwan

SkopEdge: A Traffic-Aware Auscultation Sound Monitor  
DEB Pallav Indian Institute of Technology Kharagpur India

NoBis: A Crowd Monitoring Service Against COVID-19  
AVANZI Mattia University of Padova Italy

eHSO: a real-time eHealth Service Orchestrator for medical vehicles in 5G  
networks  
MAULE Massimiliano UPC Universitat Politècnica de Catalunya Spain

RFID and BLE Enabled Smart Textile Wearable for COVID-19 Response  
KHOO Celine Drexel University United States

## **11. Reports on Conferences and Workshops**

- CSR TC traditionally sponsors three ICC/GLOBECOM symposia:
  - Next Generation Networks and Internet (NGNI)
  - Optical Networks and Systems (ONS)
  - Mobile and Wireless Networking (MWN)
  
- Upcoming GC/ICC Venues and Dates:

Conference	Location	Date
Globecom 2020	Taipei, Taiwan	Dec. 7-11, 2020
ICC 2021	Montreal, Canada	Jun. 14-18, 2021
Globecom 2021	Madrid, Spain	Dec. 7-11, 2021
ICC 2022	Seoul, Korea	May 16-20, 2022
Globecom 2022	Rio de Janeiro, Brazil	Dec. 4-8, 2022
ICC 2023	Rome, Italy	May 28-Jun. 1, 2023
Globecom 2023	Kuala Lumpur, Malaysia	Dec. 2023

### **GLOBECOM 2020 (Taipei, Taiwan)**

- ❑ Next Generation Networking and Internet Symposium
  - *Lotfi Mhamdi, University of Leeds, UK (TC representative)*
  - Rami Langar, University Paris East Marne-la-Vallee, France
  - Jerzy Domżał, AGH University of Science and Technology, Poland
  - Statistics:
    - ❑ No. of submissions: 131
    - ❑ No. of TPC members: 160
    - ❑ No. of papers accepted: 52
    - ❑ Acceptance ratio: 39.7%
- ❑ Optical Networks and Systems Symposium
  - Jiajia Chen, Chalmers University of Technology, Sweden
  - Abdelmoula Bekkali, KDDI Research Inc., Japan
  - Statistics:
    - ❑ No. of submissions: 58
    - ❑ No. of TPC members: 79
    - ❑ No. of papers accepted: 21
    - ❑ Acceptance ratio: 36.2%
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
  - Mohamad Assaad, CentraleSupélec, France
  - Dongmei Zhao, McMaster University, Canada

- Ai-Chun Pang, National Taiwan University, Taiwan
- Anna Maria Vegni, Roma Tre University, Italy
  
- Statistics:
  - ❑ No. of submissions: 183
  - ❑ No. of TPC members: 227
  - ❑ No. of papers accepted: 71
  - ❑ Acceptance ratio: 38.8%

### ICC 2021 (Montreal, Canada)

- ❑ Next Generation Networking and Internet Symposium
  - Periklis Chatzimisios, International Hellenic University, Greece
  - **Shiwen Mao, Auburn University, USA (TC representative)**
  - Ruidong Li, Network System Research Institute, Japan
  
  - Statistics:
    - ❑ No. of submissions: 153
    - ❑ No. of papers accepted: N/A
    - ❑ No. of TPC members: 228
    - ❑ Acceptance ratio: N/A
  
- ❑ Optical Networks and Systems Symposium
  - Elaine Wong, The University of Melbourne, Australia
  - Chad Assi, Concordia University, Canada
  
  - Statistics:
    - ❑ No. of submissions: 53
    - ❑ No. of papers accepted: N/A
    - ❑ No. of TPC members: 90
    - ❑ Acceptance ratio: N/A
  
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
  - Tingting Yang, Beijing Univ. of Posts and Telecom, China
  - Sharief Oteafy, DePaul University, USA
  - Hesham Elsayy, King Fahd University of Petroleum and Minerals, Saudi Arabia
  - Jun Zheng, Southeast University, China (nominated by AHSN TC)
  
  - Statistics:



- ❑ No. of submissions: 178
- ❑ No. of papers accepted: N/A
- ❑ No. of TPC members: 285
- ❑ Acceptance ratio: N/A

### **GC 2021 (Madrid, Spain)**

- ❑ Next Generation Networking and Internet Symposium
  - **Zuqing Zhu, University of Science and Technology of China, China (TC representative)**
  - Ilhem Fajjari, Orange Labs, France
  - Alessio Giorgetti, Scuola Superiore Sant'Anna, Italy
- ❑ Optical Networks and Systems Symposium
  - Rudra Dutta, North Carolina State University, USA
  - Mauro Biagi, University of Rome "La Sapienza", Italy
- ❑ Mobile and Wireless Networking Symposium
  - Shuai Han, Harbin Institute of Technology, China
  - Valeria Loscri, INRIA, France
  - Khoukhi Lyes, University of Technology of Troyes, France
  - Rui Wang, Tongji University, China

### **ICC 2022 (Seoul, Korea)**

- ❑ Next Generation Networking and Internet Symposium
  - Abdallah Shami, Western University, Canada
  - Swades De, Indian Institute of Technology Delhi, India
  - Anna Maria Vegni, Roma Tre University, Italy
  - **Dejun Yang, Colorado School of Mines (TC representative)**
- ❑ Optical Networks and Systems Symposium
  - Marco Ruffini, Trinity College Dublin
  - Steve Hranilovic, McMaster University
- ❑ Mobile and Wireless Networking Symposium
  - **Scott Fowler, Linköping University, Sweden (TC representative)**
  - Pietro Manzoni, UNIVERSITAT POLITÈCNICA DE VALÈNCIA
  - Sharief Oteafy, DePaul University, USA

### **HPSR 2021 June 7-9, 2021 (Report by Tang Jian)**

- HPSR 2021 will be held on June 7-9, 2021 in Paris, France.
  - It was hoped that the conference can go in-person.
  - HPSR is the International Conference on High Performance Switching and Routing.
  - HPSR is run annually by CSR-TC and is the flagship conference of CSR-TC.
  - HPSR organization committee:
    - ❑ General Chair  
Abdelhamid Mellouk, University Paris-Est Créteil
    - ❑ General Co-Chair  
Abdulhalim Dandoush, ESME-Sudria Paris
    - ❑ TPC Co-Chair  
Thiago Abreu, University Paris-Est Créteil  
Scott Fowler, Linköping University  
Hassine Mouncla, University of Paris
    - ❑ Workshop Co-Chair  
  
Xavi Masip - Bruin, Universitat Politècnica de Catalunya  
  
Stefano Giordano, Università de Pisa
  - The conference website can be found at: <https://hpsr2021.ieee-hpsr.org>
- **Next meeting**  
Attendees were invited to the Next AHSN TC meeting at ICC'21, Montreal, Canada in July 2021.
  - **Meeting Adjourn**  
The meeting was adjourned at 11:00 am, Est. Moved by Larry Xue and seconded by Cheng Li.

List of attendees:

Jian Tang	Syracuse University
Lotfi Mhamdi	Leeds University
Cheng Li	Memorial University
Guoliang Xue	Arizona State University
Vincent Chan	MIT
Mohammed Atiquzzaman	University of Oklahoma
Abdelhamid Mellouk	University of Paris 12
Baoxian Zhang	University of Chinese Academy of Science
Jun Zheng	Southeast University
Shiwen Mao	University of Auburn
Dejun Yang	Colorado School of Mines

Pascal Lorenz	University of Haute Alsace
Nirmala Shenoy	RIT
Wojciech Kabacinski	Poznan University of Technology
Cyn Sikora	IEEE ComSoc
Symeon Papavassiliou	NTUA
Bernardi Pranggono	Sheffield Hallam University
Eirini Eleni Tsiropoulou	University of New Mexico
Jingxian Wu	University of Arkansas
Jalal Ben-Othman	Centrale Supélec
Miao Pan	University of Houston
Kaigui Bian	Peking University
Augusto Casaca	INESC-ID/INOV
Guido Maier	Politecnico of Milan
Tarek Bejaoui	tarek.bejaoui@ieee.org