

**Communications Switching and Routing Technical Committee  
(TC-CSR) Meeting Minutes  
(To be approved at ICC 2023)  
Meeting at GC 2022  
Location: Online Meeting  
7:00am–9:00am ET, Tuesday, November 29, 2022**

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**CSR TC Officers:**

Chair: Lotfi Mhamdi

Vice Chair: Cheng Li

Secretary: Scott Fowler

**Number of Attendees:** 20

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**1. Welcome and Introduction**

The CSR TC Chair, Dr. Lotfi Mhamdi opened the meeting and welcomed the attendees. A total of 18 people attended the meeting. A round of introductions was conducted for all meeting attendees. The list of people attending the meeting is enclosed at the end of the minutes. Due to the COVID-19 pandemic for some of our members, a virtual online meeting was used for this TC meeting.

Dr. Lotfi Mhamdi moved to approve the agenda of the meeting, which was approved unanimously by the attendees.

The Chair introduced the 2022 TC officers:

- Chair: Lotfi Mhamdi
- Vice Chair: Cheng Li
- Secretary: Scott Fowler
- HPSR Steering Committee Chair: Zuqing Zhu
- Award and Sponsorship Events Chair: Abdelhamid Mellouk
- ComSoc Student Competition Officer: Roberto Rojas-Cessa
- Standardization Committee Liaison Officer: Nirmala Shenoy
- SIG Officer: Thiago Abreu
- Newsletter Officer: Scott Fowler

**2. Approval of the TC Meeting Minutes during GC2022**

The minutes of the last TC meeting held during ICC 2022 were circulated through the TC mailing list on November 2022, and it was posted on the TC website at: <http://site.ieee.org/comsoc->

csr/files/2022/11/ICC\_2022\_Minutes-1.pdf. The last meeting minutes were briefly reviewed by the Chair. It was moved 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. Special Interest Groups (SIGs, prepared and presented by Scott Fowler)**

- SIG ARILD dissolved
- We need to continue to find people/research groups to create SIGs.
- The topics of interest include:
  - 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
  - Intelligent System Analysis/Analytics
  - Optimal Systems
  - Optimization of Systems
  
- Scott is stepping down as SIG
- Thiago Abreu is taking over the SIG.

### **4. CSR Website**

- Added meeting notes from GC'22 Meeting
  - <https://csr.committees.comsoc.org/committee/globecom-icc/>
- Added we support IEEE High Performance Switching and Routing (2023)
  - <https://csr.committees.comsoc.org/hpsr/>
- CSR Newsletter
  - New Newsletter is up: <https://csr.committees.comsoc.org/news-2/>
  - Members of the TC are to contribute/input to the Newsletter

### **5. Two TC members were selected as symposium chairs on Globecom 2023:**

- Sami Souihi, Paris-Est Créteil Univ. / LiSSi Lab, France (NGNI)
- Miao Pan, University of Houston, USA (MWN)

## 6. Nominations for ICC'24 and GC'24:

- are submitted, we should hear soon.

## 7. ComSoc Student Competition 2022 (Roberto Rojas-Cessa)

- **Committee Chairs:** Stefano Bregni and Nelson Fonseca
- **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, Results, and Quality of Presentation.
- **Selection Committee:** 54 (active) members (+2 officers)
- **Eligible submissions received: 68**
- **Prizes are awarded in Globecom 2022.**
- **Awards:** 1 prize: \$2000 + plaque, 2<sup>nd</sup> prize: \$1000 +plaque
- More information: <https://www.comsoc.org/communications-technology-changing-world>
- **1<sup>st</sup> Place: The Owl: An Accessible Immersive Telepresence System for the Future of Human Communication**  
Gonzalez Diego, Universidad Carlos III de Madrid, Spain
- **2<sup>nd</sup> Place: Internet of Bodies: Digital Holistic Healthcare**  
Alamoudi Abeer, King Abdullah University of Science and Technology, Saudi Arabia
- **Honorable mention**
  - **ORION: Autonomous unmanned aircraft counter-drone system**  
Souli Nicolas, KIOS Research and Innovation Center of Excellence, University of Cyprus, Cyprus
  - **Enhancing Future World Through Reconfigurable Intelligent Surface-Aided Simultaneous Wireless Information and Power Transfer Systems**  
Minh Tran Nguyen, Sungkyunkwan University, South Korea
  - **How We Can Use IoT Technology to Protect Human Lives and Assets from River Floods**  
Shinji Yoshiyuki ,Tokyo City University, Japan
  - **IoT-Enabled Smart Farming in Queensland**  
Zia Muhammad Umer, James Cook University, Australia
  - **Beyond 5G-driven Low Latency Robot Responders for Rapid Emergency Evacuations**  
Dalgkitsis Anestis, Technical University of Catalonia (UPC), Spain

- **Toward Future Transportation Systems: Intelligent Coordination of Unsignalized Road Intersections for Autonomous Vehicles**  
Liang Tianhao, Harbin Institute of Technology, ShenZhen, China
- **Two-sided Mirrors: Full-dimensional Wireless Communications Using Intelligent Omni-Surfaces**  
Zeng Shuhao, Peking University, China
- **Connected vehicle enabled futuristic intersection design for driverless smart city**  
Jiang Gaoxiang, Nanjing University, China
- **Water Immersion Monitoring and Protection System based on Bluetooth Mesh and Solar Power**  
Bian Yijie, Southeast University, China
- **Hermes**  
Sharma Suryansh, Delft University of Technology, Netherlands
- **Developing an Electromyography Signals Based Prosthetic Arm Using 3D Printing Technology**  
Korai Baloch Fahad Ahmed, Mehran University of Engineering and Technology, Jamshoro, Pakistan
- **Local PtMP network infrastructure in Robinson Crusoe Island, Chile**  
Lopez Del Pino Henry, Universidad Diego Portales, Chile

## 8. 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
ICC 2023	Rome, Italy	May 28-Jun. 1, 2023
Globecom 2023	Kuala Lumpur, Malaysia	Dec. 2023
ICC 2024	Denver, USA	Jun. 2024
Globecom 2024	Cape Town, South Africa	Dec. 2024

## **GC 2022 (Rio de Janeiro, Brazil)**

- ❑ Next Generation Networking and Internet Symposium
  - Lotfi Mhamdi, University of Leeds, UK (TC representative)
  - Qi Li, Tsinghua University, China
  - Selma Boumerdassi, Conservatoire National Des Arts et Métiers (CNAM), France
- ❑ Statistics:
  - No. of submissions: 166
  - No. of papers accepted: 64
  - No. of TPC members: 264
  - Acceptance ratio: 39%
- ❑ Optical Networks and Systems Symposium
  - Suresh Subramaniam, George Washington University, USA
  - Anas Chaaban, University of British Columbia, Canada
- ❑ Statistics:
  - No. of submissions: 64
  - No. of papers accepted: 25
  - No. of TPC members: 68
  - Acceptance ratio: 39%
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
  - Vojislav Mistic, York University, Canada
  - Miao Pan, University of Houston, USA (TC representative)
  - Linglong Dai, Tsinghua University, China
  - Yun Lin, Harbin Engineering University, China
- ❑ Statistics:
  - No. of submissions: 202
  - No. of papers accepted: 81
  - No. of TPC members: 40%
  - Acceptance ratio: 253

## **ICC 2023 (Rome, Italy)**

- ❑ Next Generation Networking and Internet Symposium
  - Zuqing Zhu, University of Science and Technology of China (TC Representative)
  - Mubashir H. Rehmani, Munster Technological University (MTU), Ireland
  - Periklis Chatzimisios, International Hellenic University, Greece
- ❑ Optical Networks and Systems Symposium
  - Raul Munoz, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC),

Spain

- Murat Yuksel, University of Central Florida, Orlando, USA
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
  - Damla Turgut, University of Central Florida, USA
  - Chin-Tser Huang, Univ. of South Caroline, USA
  - Chun-Hung Liu, Mississippi State University, MS, USA
  - Carla Fabiana Chiasserini, Politecnico di Torino, IT

### GC 2023 (Kuala Lumpur, Malaysia)

- ❑ Next Generation Networking and Internet Symposium
  - Aggeliki Sgora, Ionian University, Greece
  - Ahmed Refaey Hussein, Manhattan College, USA
  - **Sami Souihi, Paris-Est Créteil Univ. / LiSSi Lab, France (TC representative)**
- ❑ Optical Networks and Systems Symposium
  - Jerzy Domzal, AGH University of Science and Technology, Poland
  - Nicola Andriolli, CNR, Italy
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
  - Abdallah Shami, Western University, Canada
  - Abdel-Hamid Taha, Alfaisal University, Saudi Arabia
  - **Miao Pan, University of Houston, USA (TC representative)**
  - Zehui Xiong, Singapore Univ. of Tech. & Design, Singapore

### ICC 2024 (Denver, USA)

- ❑ Next Generation Networking and Internet Symposium
  - TBD
- ❑ Optical Networks and Systems Symposium
  - TBD
  - Mobile and WIRELESS NETWORKING SYMPOSIUM
  - TBD

### HPSR 2023 (Albuquerque, NM, USA)

- ❑ HPSR 2023 will be held on June 5-7 in Albuquerque, NM, USA.
- ❑ Conference website: <https://hpsr2023.ieee-hpsr.org/>

### Report on HPSR

- IEEE International Conference on High Performance Switching and Routing (HPSR)
- Annual flagship conference of CSR TC of ComSoc
- Steering Committee of HPSR:

- Zuqing Zhu (Chair, 2022-2024)
- Abbas Jamalipour (Past Chair, 2022-2024)
- Stefano Giordano (Europe, 2022-2024)
- Kohei Shiimoto (Asia-Pacific, 2020-2022)
- Guoliang Xue (America, 2020-2022)
- Abdelhamid Mellouk (Europe, 2018-2022)
- Roberto Rojas-Cessa (America, 2022-2024)
- Fazirulhisyam Bin Hashim (Asia-Pacific, 2022-2024)
- Lotfi Mhamdi (Ex-officio, CSRTC Chair, 2022-2023)
- Shirley Cisneros, Sr. Conference Planner, ComSoc
- Bruce Worthman, ComSoc

### **Recent and Future HPSRs**

- HPSR 2023 (<https://hpsr2023.ieee-hpsr.org/>)
  - June 5-7, 2023, Albuquerque, NM, USA
  - General Chair: Eirini Eleni Tsiropoulou, University of New Mexico, USA.
  - General Co-chair: Abdelhamid Mellouk, Université Paris-Est Créteil, France.
- HPSR 2024 (in Europe)
  - Received one strong conference proposal, and SC will discuss about it.

### **9. 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
- Any member of CSR TC is eligible for being nominated but self-nominations are NOT acceptable.
- Selected by the CSR TC awards committee and presented at the TC-CSR meeting at ICC/GC.
- An award consists of a plaque.

#### Award Winners (2015-2020)

- 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 UST in Krakow, Poland  
Guoliang Xue, Arizona State University, USA

- 2018: Nirwan Ansari, New Jersey Institute of Technology, USA
- 2019: Shiwen Mao, Auburn University, USA
- 2020: Abdelhamid Mellouk, University of Paris-Est Créteil (UPEC), France
- 2021: Dr. Bijan Jabbari, George Mason University, USA

## 10. Distinguished Technical Achievement Award: Chair and Subcommittee

- Traditionally, the previous TC chair takes up the role.
  - Dr. Jian Tang apologized, due to other commitments.
- We are therefore asking the previous TC chair(s) to take up the role.
- Traditionally, the previous TC chair takes up the role.
  - Dr. Jian Tang (previous TC Chair) apologized, due to other commitments.
  - Dr. Jun Zheng (Previous TC Chair apologized, due to other commitments.
- The new Committee is:**
  - Prof. Abdelhamid Mellouk (Chair)**
    - Prof. Shiwen Mao, Member
    - Prof. Roberto Rojas-Cessa, Member
    - Prof. Stefano Giordano, Member
    - Dr. Scott Fowler, Member

## 11. Next meeting

The next official CSR TC meeting will be held during or around when ICC'23, Rome, Italy.

## 12. Meeting Adjourn

The meeting was adjourned at 2:20 PM, ET.

List of attendees:

Lotfi Mhamdi	L.Mhamdi@leeds.ac.uk, University of Leeds
Cheng Li	licheng@mun.ca, Newfoundland and Labrador's University
Scott Fowler	scott.fowler@liu.se, Linköping University
Cynthia Sikora	c.a.sikora@comsoc.org, IEEE ComSoc Industry Outreach
Tarek Bejaoui	tarek.bejaoui@ieee.org, University of Carthage
Stefano Giordano	stefano.giordano@unipi.it, University of Pisa
Zuqing Zhu	zqzhu@ieee.org, University of Science and Technology of China
Pascal Lorenz	lorenz@ieee.org, University of Haute Alsace
Sami Souihi	sami.souihi@u-pec.fr, University of Paris Creteil
Abdelhamid Mellouk	mellouk@u-pec.fr, University of Paris Creteil
Mohammed Atiquzzaman	atiq@ou.edu, University of Oklahoma
Shewen Mao	smao@ieee.org, Auburn University
Qiang Ye	gye@cs.dal.ca, Dalhousie University



Proper Chemouil	prosper.chemouil@ieee.org, Cnam Paris
Eirini Eleni Tsiropoulou	eirini@unm.edu, University of New Mexico
Mohamed Aymen Labiod	mohamed-aymen.Labiod@u-pec.fr, University of Paris Creteil
Thiago Abreu	thiago.abreu@u-pec.fr, University of Paris Creteil
Hedi Hamdi	hhamdi@ju.edu.sa, Jouf University
Augusto Casaca	augusto.casaca@inov.pt, Instituto Superior Técnico
Symeon Papavassiliou	papavass@mail.ntua.gr, National Technical University of Athens