

**Communications Switching and Routing Technical Committee
(TC-CSR) Meeting Minutes
(To be approved at GC 2022)
Meeting at ICC 2022
Location: Online Meeting
7:00am–9:00am EST, Tuesday, May 6, 2022**

CSR TC Officers:

Chair: Lotfi Mhamdi

Vice Chair: Cheng Li

Secretary: Scott Fowler

Number of Attendees: 18

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, 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: 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: Cheng Li

2. Approval of the TC Meeting Minutes during GC2021

The minutes of the last TC meeting held during GC 2021 were circulated through the TC mailing list on April 2022, and it was posted on the TC website at: <https://csr.committees.comsoc.org/files/2022/04/GC-2021-Minutes.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

- Name: Addressing, Routing, and Interconnection of Limited Domains (ARILD)
- Coordinator:
 - David Lou, Huawei Technologies, zhe.lou@huawei.com
 - Professor Alex Galis, UCL, a.galis@ee.ucl.ac.uk

▪ About SIG

The solution space has been evolving in a fragmented way. Too many ad-hoc solutions can lead to unnecessary complexity, increased fragility and even security/privacy leakage. In order to avoid these potential risks, we need a common platform to foster the exchange of insights on existing practices and the discussion of techniques and emerging solutions and look for potential architectural patterns or common building blocks.

- Tried contacting the ARILD SIG but never heard back.
- 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 was appointed as SIG coordinator.

4. CSR Website

- Updated Current Executive and Past Chairs
 - ❑ <https://csr.committees.comsoc.org/committee/current-executives/>
 - ❑ <https://csr.committees.comsoc.org/committee/past-chairs/>
- Added meeting notes from GC'21 and Upcoming Meeting
 - ❑ <https://csr.committees.comsoc.org/committee/globecom-icc/>
- Added we support IEEE High Performance Switching and Routing (HPSR 2021 and 2022)
 - ❑ <https://csr.committees.comsoc.org/hpsr/>
- CSR Newsletter
 - ❑ Existing Newsletters: <https://csr.committees.comsoc.org/news-2/>
 - ❑ Need to work on the newsletter
 - ❑ The initial plan was to have one volume per year
 - ❑ 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. ComSoc Student Competition 2021 (presented Lotfi Mhamdi Email: Roberto.rojascessa@njit.edu)

- 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 and Results, Quality of Presentation.
- Selection Committee: 53 (active) members (+2 officers)
- Eligible submissions received: 53
- Prizes are awarded in Globecom 2021. _
- Awards: 1 prize: \$2000 + plaque, 2nd prize: \$1000 +plaque
- More information: <https://www.comsoc.org/communications-technology-changing-world>
- IEEE ComSoc Student Competition 2021
- ComSoc Student Competition Results
 - ❑ **1st Place: WiVi-Pass: A wireless-visual cross-correlated presence system for Covid-Pass entrance management**

HUANG Yunfeng, TU Dortmund University Germany

❑ **2nd Place: Saving Fuel, Time, and Lives with Collaborative Autonomous Intersection Management**

WANG I-Chih, National Yang Ming Chiao Tung University Taiwan and NYU, USA (H. Jonathan Chao, Advisor, CSR-TC member)

❑ **"HONORARY MENTION" CERTIFICATES**

(in no order)

Magdroid: An IoT-Enabled Environment-Aware Electrical Safety Assistant

GUPTA Anshita, Indian Institute of Technology, Kharagpur India

Diagnosis of Specific Phobic Anxiety Disorders using Virtual Reality Environment

MUNIR Alina, University of Engineering and Technology - Lahore. Pakistan

HVR

ELMAKIAS Ofir, Technion - Israel Institute of Technology Israel

SSD vs YOLOv3 for Mask Detection & Temperature Sensing Device

ABDULLA Amna, University of Bahrain Bahrain

Soft Information-based Localization for 5G and B5G: Operation in 3GPP Standardized Scenarios

MORSELLI Flavio, DE, CNIT at University of Ferrara Italy

mpSynchVR: Motion Prediction-based Synchronization in Distributed Multi-user VR Interaction with Mobile Edge Computing

HSIAO Ta-Che, National Taiwan University Taiwan

Containing the Spread of COVID-19 with IoT: A Visual Tracing Approach

DEB Pallav, Indian Institute of Technology Kharagpur India

Complex Network Modeled Adaptive Quarantine Strategy with Localization for Anti-COVID-19

WANG Hao, City University of Hong Kong Hong Kong SAR China

ybrChat: A Distributed Chat Application for Secure Messaging

HALDER Debajyoti, Indian Institute of Technology Bhilai India

IoT based Prediction of Pesticides and Detection of Diseases in Fruits Using SVM and Neural Networks

JAHNAVI A.Siva, Vardhaman College of Engineering, Hyderabad India

Live Radar

TANVEER Sheikh, university of engineering and technology lahore, pakistan
Pakistan

BlockCycle – The Decentralized Bicycle Insurance System based on Blockchain

CHIU Wei-Yang, Technical University of Denmark Denmark

7. 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 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
ICC 2024	Denver, USA	Jun. 2024
Globecom 2024	Cape Town, South Africa	Dec. 2024

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)**

- Statistics:
 - ❑ No. of submissions: 200
 - ❑ No. of papers accepted: 80
 - ❑ No. of TPC members: 200
 - ❑ Acceptance ratio: 40%

- ❑ Optical Networks and Systems Symposium
 - Steve Hranilovic, McMaster University, Canada
 - Marco Ruffini, Trinity College Dublin, Ireland
- ❑ Statistics:
 - No. of submissions: 46
 - No. of papers accepted: 20
 - No. of TPC members: 77 (+ 2 Track Chairs)
 - Acceptance ratio: 43%

- ❑ Next Generation Networking and Internet Symposium
 - **Scott Fowler, Linköping University, Sweden (TC representative)**
 - Pietro Manzoni, UNIVERSITAT POLITÈCNICA DE VALÈNCIA
 - Sharief Oteafy, DePaul University, USA
- ❑ Statistics:
 - No. of submissions: 163
 - No. of papers accepted: 64
 - No. of TPC members: 324
 - Acceptance ratio: 39.3%

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: N/A
 - No. of papers accepted: N/A
 - No. of TPC members: N/A
 - Acceptance ratio: N/A

- ❑ Optical Networks and Systems Symposium
 - Suresh Subramaniam, George Washington University, USA

- Anas Chaaban, University of British Columbia, Canada
- ❑ Statistics:
 - No. of submissions: N/A
 - No. of papers accepted: N/A
 - No. of TPC members: N/A
 - Acceptance ratio: N/A
- ❑ Mobile and WIRELESS NETWORKING SYMPOSIUM
 - Vojislav Misic, 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: N/A
 - No. of papers accepted: N/A
 - No. of TPC members: N/A
 - Acceptance ratio: N/A

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

HPSR 2022 (Taicang, China)

- ❑ HPSR 2022 will be held on June 6-8 in Taicang, China.
- ❑ Conference website: <https://hpsr2022.ieee-hpsr.org/>

8. 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

9. 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.

10. Next meeting

The next official CSR TC meeting will be held during GC'22, Rio de Janeiro, Brazil. TC members who plan to attend Seoul, South Korea, in May 2022, may meet informally with the assistance from Cynthia and ComSoc.

10. Meeting Adjourn

The meeting was adjourned at 10:40 am, EST.

List of attendees:

Lotfi Mhamdi	L.Mhamdi@leeds.ac.uk, University of Leeds
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