

**Communications Switching and Routing Technical Committee  
(TC-CSR) Meeting Minutes  
(To be approved at ICC 2019)  
Meeting at Globecom 2018 Abu Dhabi, UAE  
Location: Capital Suite 4, ADNEC  
7:30 am – 9: 30 am, December 12, 2018**

The TC-CSR bi-annual meeting was held during Globecom 2018 on Wednesday, December 12, 2018 in Abu Dhabi National Exhibition Center (ADNEC), Abu Dhabi, UAE. The meeting started at 7:30 am and adjourned at 9:30 am. The current TC Chair Dr. Jun Zheng chaired the meeting. Dr. Lotfi Mhamdi recorded the meeting minutes.

### **1. Welcome and Introduction**

The Chair, Dr. Jun Zheng, opened the meeting and welcomed the attendees. Total of 25 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 Dr. Jun Zheng and Dr. Dr. Lotfi Mhamdi. We had Dr. Scott Fowler, Dr. Jian Tang 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 Mhamdi
- HPSR Chair: Abbas Jamalipour
- Award and Sponsorship Events Chair: Abdelhamid Mellouk
- 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 ICC2018**

The minutes of the last TC meeting held during ICC 2018 were briefly shown by the Chair and was approved by all attendees through a vote. 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**

- Report on TC recertification:
  - Each ComSoc TC will go to a recertification process every three years.
  - Information, activities, and contributions important to TC recertification:
    - Website and clear charter/P&P;
    - Clear definition of active TC members;
    - Conferences 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
  - CSR TC is required to go to the recertification process this year.
  - A self-evaluation report was prepared and sent to the Technical Services Board of TEAC last year.
  - The 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.
  - Approval notification was received from the Chair of the TC Recertification Committee on December 10, 2018.
- Report from TAEC:
  - CSR TC members elevated to IEEE Fellows in 2018
    - **Jian Tang**, Syracuse University, USA  
for contributions to optimization in wireless networks and mobile crowdsourcing systems
    - **Shiwen Mao**, Auburn University, USA  
for contributions to wireless multimedia networking
  - CSR TC members selected as DLs for 2018-2019
    - **Nirwan Ansari**, New Jersey Institute of Technology, USA
- Discussion about the future ICC/GC:
  - ICC'19, Shanghai, China, May 20-24, 2019
  - GC'19, Hawaii, USA, Dec. 9-13, 2019
  - ICC'20, Dublin, Ireland, June 7-11, 2020
  - GC'20, Taipei, Taiwan, Dec. 7-11, 2020
  - ICC'21, Montreal, Canada, June 14-18, 2021
  - GC'21, Madrid, Spain, Dec 7-11, 2021
  - ICC'22, Seoul, South Korea, May 16-20, 2022
  - GC' 22, Rio de Janeiro, Brazil, Dec. 4-8, 2022
  - ICC'23, Rome, Italy, May 28- June 1, 2023

#### 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 just published in December 2018



December 2018

#### Inside This Issue

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#### Preface

Welcome to the first edition of the IEEE Technical Committee on Communications Switching and Routing (CSR Newsletter). The purpose of this newsletter is to provide specialized information to the members of the CSR and the communications community at large.

This Newsletter is conceived to be a means of sharing information and news to members of the committee approximately every six months. In particular, the newsletter aims at inviting the authors of successful research projects and experts from the committee members and the larger communications community about CSR-related research activities to share their experience and knowledge by contributing in short news.

I hope you will find it a useful communication tool that is brief and open to everybody to contribute.

*Lotfi Mhamdi*  
CSR Secretary and Newsletter editor

#### TC-CSR

The objective of the Technical Committee on Communications Switching and Routing (TC-CSR) is to advance the state of the art in theory and applications of information switching and networking by the following:

- To bring together professionals with interests in various aspects of Communications Switching and Routing such as theory and architecture (B-ISDN/ATM, optical switching), teletraffic theory, mobility and call control, signaling protocol, Intelligent Networks and service features, switching software architecture, management, economics, and applications of switching and routing systems.
- To provide a forum for discussion and exchange of technical matters among members in the committee meetings, special interest group meetings, topical meetings, and workshops.
- To sponsor technical sessions at conferences and stimulate high quality technical papers for conferences and IEEE publications.
- To organize special issues of IEEE publications.

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Welcome to the CSR  
Newsletter.

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- Newsletter content
  - Fix (almost) content/sections: Preface, TC-Meetings, committees, etc.
  - Variable content: Contributions of the TC members, news, events, etc. -> **Contributions Needed here**
  - Few proposals for the newsletter content were suggested, such as including the list of publications per TC member for the last 6 months, or having a small template for news of the TC members.
- **TC-Website by Lotfi Mhamdi**
  - The website has been updated (committees)
  - A Newsletter link/tab is to be added (replace the “News” tab). Link: <http://csr.committees.comsoc.org/news-2/>

## 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)
- If one needs to pply for SIG please contact SIG coordinator is Scott Fowler, Linkoping University, Sweden, [scott.fowler@liu.se](mailto:scott.fowler@liu.se).
- Just inform Scott twice a year (before ICC and Globecom) about the activities. Example, TPC served on, conference/workshop organizing, Special issue on Journals or talks for the SIG.
- The SIG would have to fit under the topics of interest for TC-CSR which are:
  - 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

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

- Committee Chairs: Stefano Bregni and Nelson Fonseca, Selection Committee: 45 members
- Eligible submissions received: 33
- Prizes awarded in Globecom 2018.
- FIRST PRIZE
  - Passenger Flows: Crowd Mobility Analytics with Edge Computing in Public Transport  
Bitterschulte Kai, TU Dortmund University, Germany
- SECOND PRIZE
- iDriveSense: Towards Efficient Road Information Services  
El-Wakeel Amr, Queen's University, Canada
- "HONORARY MENTION" CERTIFICATES  
(in no order)
  - DeepMines: A fog enabled prediction platform for underground coal mines  
Sanyal Sunny, Chongqing University Of Posts and Communications, China
  - An IoT-Based Water Quality Monitoring Device with Potability Prediction For Philippine Rural Areas  
Reyes Arvin Christian, Malayan Colleges Laguna, Philippines
  - Communication and vision system for rescue tasks in coal mine areas  
Genovés Guzmán Borja, University Carlos III of Madrid, Spain
  - An alert system against sexual harassment in urban public transport using RFID technology and SMS in GSM network  
Pineda Pedro, Universidad Politecnica Salesiana-Cuenca, Ecuador
  - Connected Cows- Fog Assistance Towards Data Driven Smart Dairy Farming  
Taneja Mohit, Waterford Institute of Technology, Ireland
  - Pedestrian Awareness Application  
Giannone Francesco, Scuola Universitaria Superiore Sant'Anna, Pisa, Italy
  - Autonomous Nursing Robot  
Ihtisham Muhammad Hamza, University of the Punjab, Pakistan
  - A Proactive Non-Signalized Intersection Management Design for Automated Vehicles  
Wu Hanlin, Nanjing University, China

## 7. Report about TC-standardization liaison by Nirmala Shenoy

- **IEEE ACCESS-Core Standards Committee**
- Meeting: Oct 15 -2018, 10AM to 11AM
- Agenda items
  - PAR IEEE P1911.3 Status – Action
  - PAR IEEE P1904.2 Extension and modification – Action
  - New PAR proposal: Drone Payload Interface Standard – Action
  - New PAR proposal: Standard for Drone Applications Platform – Action
  - PAR IEEE P1920.1 (FYI - an existing project in COM/MobiNet-SC)
- Attendees:
  - Curtis Siller
  - Glen Kramer
  - Nirmala Shenoy
  - Ariel Sobelman
  - Alex Gelamn
  - Nicholas Orlando
  - Victoria Wang
  - Holland Oliver
  - Namudari Kamesh x chair of ieeecom mobinet drone
  - John Lu
- P1911.3: Inaction of Working group. Take no action and let it expire
- P1904.2 Extension and modification:
  - Two motions – modifications
  - Extend the PAR for 2 years
  - Both motions approved
- New PAR proposal – standard for drone application platform P1936.1
  - John Lu made a presentation of the scenarios and applications using drones
  - Framework for regulation would be good
  - We had discussions, clarifications –
  - Approved
- New PAR proposal: Drone Payload Interface Standard – 1937.1
  - Approved

## 8. Conferences and Workshops

### □ Reports about HPSR (Abbas Jamalipour),

- Report on previous HPSR (Romania): not very successful, mainly due to location
- The HPSR steering committee meeting noted the followings:
  - Future HSPR need to have good location, good organizing (local) committee as well as good marketing to attract more attendees.
  - Include one advisor for each future HPSR conference.
  - Looking for good sized conference (100+ attendees).
  - A discussion regarding the rotation rule of HPSR location. General motion is to go for the success of HPSR more than the location (following the rotation rule)
  - The plan for HPSR 2020 is to be in New Jersey (Roberto Rojas-Cessa).
  - Calls for HPSR'21 are being solicited.

- Steering committee membership call for membership over the next 3-years terms is open.
- HPSR 2019: 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

## 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@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: 229
    - No. of papers accepted: 88
    - No. of sessions:
    - Acceptance ratio: 38.43%
- 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: 66
    - No. of papers accepted: 25
    - No. of sessions: 4+1(interactive)
    - Acceptance ratio: 37.88%
- 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: 270
  - No. of papers accepted: 104
  - No. of sessions: 16+4 (interactive)
  - Acceptance ratio: 38.50%

#### □ 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*
  
  - Statistics:
    - No. of papers submitted: 229
  
- Optical Networks and Systems Symposium
  - *Scott Fowler, Linkoping University, Sweden*
  - *Xiaojun (Matt) Cao, Georgia State University, USA*
  
  - Statistics:
    - No. of papers submitted: 79
  
- 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*
  
  - Statistics:
    - No. of papers submitted: 279

#### □ 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

#### ❑ GLOBECOM 2020 (DTaipei, Taiwan)

- Request for symposium co-chair nominations received from ICC 2020 TPC Chair in early October, 2018
- Call for nominations was sent to the CSR TC mailing list in October, 2018
- Each nominee must meet the following requirements:
- Have committed time and effort to handle the entire review process and to timely report statistics to the CSR-TC.
- Have not served, or have not been selected to serve, as a symposium co-chair for 3 ICC/GC conferences prior to GC 2020 (i.e., GC 2015 to ICC 2020)
- Should be an active CSR-TC member and have attended at least one TC meeting in the past two years.
- The following information is required to be included in a nomination/self-nomination:
  - A list of up to three symposia or tracks that the nominee is interested in co-chairing (in order of priority).
  - A short biography with a URL to the nominee's webpage, emphasizing nominee's track record in conference leadership or a list of up to 10 representative papers of the nominee's authorship relevant to the symposia or tracks the nominee would like to chair.
  - The nominee's past involvement in or contributions to CRS-TC.
- The number of nominations received: 2
- One member was nominated to GC 2020 TPC Chair:
  - *Lotfi Mhamdi, The University of Leeds, United Kingdom*



## 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 was presented at CSR TC meeting at GC 2018 in Abu Dhabi.

## 12. Distinguished Service Award

- Highlights:
  - Established in 2014
  - To recognize ComSoc CSR TC members for their activities and 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 CSR TC member is eligible for being nominated.
- Award Winners (2014-2017)
  - 2014: Hussein Mouftah, University of Ottawa, Canada
  - 2015: Shiwen Mao, Auburn University, USA
  - 2016:
  - 2017: Naoaki Yamanaka, Keio university, Japan

- Call for Nominations was sent to the TC mailing list in early November.
- Number of nominations received: 1
- The Award committee members:
  - Chair: Abdelhamid Mellouk (France, Europe)
  - Current TC Chair: Jun Zheng (Asia, China)
  - External member: Scott Fowler (Sweden, Europe)
- 2018 Winner is **Dr. Guoliang Xue**, Arizona State University, USA
- The Award was presented at CSR TC meeting at GC 2018 in Abu Dhabi.
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### 13. Other Business: N/A

### 14. List of attendees:

Jun Zheng	Southeast University, China	<a href="mailto:junzheng@seu.edu.cn">junzheng@seu.edu.cn</a>
Lotfi Mhamdi	University of Leeds	<a href="mailto:l.mhamdi@leeds.ac.uk">l.mhamdi@leeds.ac.uk</a>
Nirwan Ansari	NJIT, USA	<a href="mailto:ansari@njit.edu">ansari@njit.edu</a>
Shiwen Mao	Auburn University	<a href="mailto:smao@ieee.org">smao@ieee.org</a>
Mohammed Atiquzzaman	University of Oklahoma, USA	<a href="mailto:atiq@ou.edu">atiq@ou.edu</a>
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