Communications Switching and Routing Technical Committee
(TC-CSR) Meeting Minutes

(To be approved at ICC2018)

Meeting at GC 2017, Singapore
Room 4011, Hotel Marina Bay Sands
12:00pm - 14:00pm on Thursday, Dec. 7, 2017

The TC-CSR bi-annual meeting was held during GC 2017 on Thursday, Dec.7, 2017 in Hotel Marina Bay Sands, Singapore. The meeting started at 12:00pm and adjourned at 14:00pm. The meeting was chaired by the current TC Chair, Dr. Abdelhamid Mellouk. The meeting minutes were recorded by Dr. JianTang, TC-CSR Secretary.

1. Welcome and Introduction

The Chair, Dr. Abdelhamid Mellouk,opened the meeting and welcomed the attendees. 30 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. Mohammed Atiquzzaman, Dr. Scott Fowler 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: Abdelhamid Mellouk
   - Vice Chair: Jun Zheng
   - Secretary: Jian Tang
   - HPSR Chair: Nirwan Ansari
   - ComSoc Student Competition: Roberto Rojas-Cessa
   - Standardization Committee Liaison: Henry Suthon & Nirmala Shenoy
   - Newsletter Officer: Lotfi Mhamdi
   - SIG Officer: Scott Fowler

2. Approval of the TC Meeting Minutes during ICC 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 GISM/GITC Meeting by the TC Chair

1) Discussion about the future ICC/GC:

   - ICC 18: Kansas City, 20-24 May 2018
   - GC 18: Abu Dhabi, 9-13 Dec. 2018
   - ICC 19: Shangai, 20-24 May 2019
   - GC 19: Hawaii, 9-13 Dec. 2019
   - ICC 20: Dublin

- GC 20: Taipei
- ICC 21: Montreal, 14-18 June 2021
- GC 21: Madrid, 7-11 Dec. 2021
- ICC 22: TBD
- GC 22: TBD
- ICC 23: Rome

2) Report from TAEC:

- Emerging TC :
  - SDN/NFV as Emerging Technologies Initiatives until 2018
- Vision of future communication summit:
  - What about after 5G has conquered the market (from 2025? onward)
  - See Comag 12/2018 : Rui Aguiar and Arturo Azcorra (NW2020)
  - Extensions to 5G (new radio bands, spectrum sharing, massive mimo, etc.)
  - Fundamental issues (deep softwarization, next generation IP, new NW layer protocol and architecture, interactions of technology – in particular IoT and society, Cyber Security)
  - Disruptive technologies (photonics, nano-scale (new 2D materials, grapheme and others), bio-inspired nano machines; Quantum communications)
- TC Recertification Committee
- 8 TCs were reviewed (CN, CQRTC, CT, CC was suspended until March 2018, DS, Internet Tech, Radio Comm and TAOS).
- Fellow Evaluation Committee (Chair: Lionel Ni)
- Number of nominees: 109 (92 in 2016): 34 fellows this year (31 in 2016).

4. Report about the TC re-certification (Technical Services Board) by the TC Chair

The TC chair prepared a self-evaluation report with the help of the TC secretary, which includes the following information:

- Website and clear charter/P&P;
- Clear definition of active members of TC and actively promoting the TC by attracting new blood;
- Activities: newsletters and interest groups help a lot;
- Conference and Publications;
- Standard/industry involvement

5. The newsletter report by Lotfi Mhamdi

- The newsletter has been proposed and approved during the CSR-TC meeting at ICC'17, Paris.
- It serves as a means of sharing news, information and communications amongst members of the CSR and beyond.

- It is open to everybody to contribute.
- Approximately 2 issues per year.
- Potential content
    - Fixed content/sections: preface, TC meetings, committees, etc.
    - Variable content: contributions of the TC members, news, events, etc.

A newsletter template was shown and approved by the TC.

6. **Discussion about the Special Interest Groups (SIGs)**

- The TC chair mentioned that a lot of work has been done to refresh and consolidate related topics and the next step is to create SIGs

- The following topics have been suggested:
    - 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

- One of the TC members proposed Content Centric Network (CCN) based on AI/ML and Big Data

- Some suggestions and comments from TC members: 1) SIG is expected to develop some standards and proposals. 2) SIG can maintain a mailing list to collect information and opinions from its members, and find new paradigms. 3) SIG can develop special issues.

7. **Report about the ComSoc student competition 2017 by Roberto Rojas-Cessa**

- Author Eligibility: student members or graduate student members 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
- Awards were given at Globecom 2017
- One 1st prize, one 2nd, and 7 Honorific Mentions out of the 23 submissions
- Awards: 1 prize: $2000 + plaque, 2nd prize: $1000 +plaque
- More information:http://www.comsoc.org/blog/ieee-comsoc-student-competitions-communications-technology-changing-world-0

8. **Report about standardization liaison by Henry Suthon and Nirmala Shenoy**
   - 12/4/2017 Mehmet Ulema, the Chair of the IEEE Communications Society Standards Development Board provided the Chair's Report summarizing the past several years.
     - 45+ Standards Committees
     - 40+ Standards Published
     - 5 new Standards Committees
     - An Operations Manual developed to include guidelines not covered in P&P's Actively participated in SASB to pursue ComSoc interests.
   - **Reports from ComSoc Standards Committees**
     - DySPAN
     - PLC
     - NetSoft
     - MobiNet
     - GreenICT
     - EdgeCloud
     - AccessCore
   - **Reports from Working Group and Study Group Chairs**
     - COM/SDB/CEA
     - COM/SDB/1904 WG
     - COM/SDB/1910 WG
     - COM/SDB/HDBT5
     - COM/SDB/P1912
     - COM/SDB/BOP
     - SG on Frugal 5G

9. **Reports about HPSR by Nirwan Ansari**
   - HPSR 2019 will be held in Xi'an China.
   - The hosting city for HPSR2020 is still open. It is expected to come back to

America.

- Nirwan's term as the steering committee chair will end in a couple of weeks.

- HPSR would like to have one steering committee from Asia.

- Requirements for being in the steering committee: attending the steering committee meeting; and promoting the research areas of the CSR TC.

- Only 23 papers were accepted by HPSR'2017 and more papers are expected for HPSR in Xi'an, China.

10. Reports about recent GC and ICC

1) Report about GC 2017

- **Next-Generation Networking and Internet Symposium**
  - Co-Chairs:
  - F. Richard Yu, Carleton University, Canada
  - Walter Cerroni, University of Bologna, Italy
  - Report:
  - 252 submissions
  - 99 accepted papers
  - 80 will be presented in 16 NGNI sessions
  - 19 will be presented in shared interactive sessions
- **Mobile and Wireless Networks Symposium**
  - Co-Chairs:
  - Dusit Niyato, Nanyang Technological University
  - Chadi Assi, Concordia University
  - Shaowei Wang, Nanjing University
  - Report:
  - 334 validsubmissions
- **Optical Networks and Systems Symposium**
  - Co-Chairs:
  - Gangxiang (Steven) Shen, Soochow University
  - Paolo Monti, KTH Royal Institute of Technology
  - Report:
  - 84 validsubmissions

2) Report about ICC 2018: 2433 submissions

- **Next-Generation Networking and Internet Symposium**
  - Co-Chairs:

- 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
- Report:
- 196 submissions

- **Optical Networks and Systems Symposium**
  - Co-Chairs:
  - Tarek El-Bawab, Jackson State University, USA
  - Nasir Ghani, University of South Florida, USA
  - Report:
  - 71 submissions

- **Wireless Networking Symposium**
  - Azzedine Boukeche, University of Ottawa, Canada
  - Frank Li, University of Agder, Norway
  - Min Sheng, Xidian University, China
  - Yong Li, Tsinghua University, China
  - Report:
  - 190 submissions

3) **Report about GC 2018, Abu Dhabi**
   - Next Generation Networks and Internet Symposium: Abdelhamid Mellouk (co-chair)
   - Wireless Networking Symposium: Jun Zheng (co-chair)
   - Optical Networks and Systems symposium: Xavi-Masip Bruin (co-chair)

11. **The CSR-TC Distinguished Service Award**
    - The CSR-TC Distinguished Service Award was established in 2014. The highlights of the Award include:
      - Recognize members of CSR-TC for their activities and contributions to the field covered by CSR;
      - Selection by the CSR-TC Awards Committee from nominations;
    - The CSR-TC Award Committee: Mohammed Atiquzzaman, Nirwan Ansari and Abdelhamid Mellouk
    - Two winners: Abdelhamid Mellouk (UPEC, France) and Naoaki Yamanaka (Keio University, Japan)

12. **Election**

- Call of nominations sent Nov 20th.
- Candidates:
    - Chair : Jun Zheng (current vice-chair), Southeast University, Nanjing, China
    - Vice-Chair: Jian Tang (current secretary), Syracuse University, Syracuse, USA
    - Secretary: Lotfi Mhamdi, Leeds University, UK.
- New Officers (2018-2019):
    - Chair: Jun Zheng
    - Vice-Chair: Jian Tang
    - Secretary: Lotfi Mhamdi
    - Award and Sponsorship Events/Conferences Chair: Abdelhamid Mellouk
    - HPSR Chair: Abbas Jamalipour
    - Comsoc Student Competition Officer: Roberto Rojas-Cessa
    - Standardization Committee Liaison Officer: Henry Suthon and Nirmala Shenoy
    - Newsletter Officer: Lotfi Mhamdi
    - SIG Officer: Scott Fowler

13. Other Business: N/A

14. List of attendees:

Nirwan Ansari	NJIT, USA	ansari@njit.edu
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