

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

**(Approved at ICC 2017)**

**Meeting at Globecom 2016, Washington DC  
Gunston (West & East), Terrace Level  
Washington Hilton Hotel  
7:00am - 8:30am on Monday, Dec. 5, 2016**

The TC-CSR bi-annual meeting was held during Globecom 2016 on Monday, Dec. 24, 2016 in Gunston (West & East), Terrace Level, Washington Hilton Hotel. The meeting started at 7:00am and adjourned at 8:30am. The meeting was chaired by the current TC Chair, Dr. Abdelhamid Mellouk. The meeting minutes were recorded by Dr. Jian Tang, TC-CSR Secretary.

### **1. Report on HPSR 2016 by Nirwan Ansari**

- Number of submitted papers: 80
- Number of accepted papers: 39
- Acceptance ratio: 48.8%
- Authors of submitted papers came from 26 countries in Asia, North America, Europe, and Africa
- The best paper was selected by HPSR 2016 Award Committee based on all the review results including reviewers' comments and reviews by Committee the Award Committee: Naoaki Yamanaka, Nirwan Ansari, Eiji Oki, Andrea Fumagalli, Aleksandra Smiljanić
- Best Paper Award is presented to Andrew Mundy, Jonathan Heathcote, and Jim D. Garside, University of Manchester, United Kingdom, On-chip Order-Exploiting Routing Table Minimization for a Multicast Supercomputer Network
- HPSR 2017:
  - First ever IEEE HPSR conference in South America
  - Location: Campos Do Jordão, SP, Brazil (Major tourist attraction in State of São Paulo (SP))
  - When: June 18 – 21, 2017
  - Venue: Unicamp
  - Sponsors: IEEE Communications Society (ComSoc), Brazilian Telecommunications Society (SBRT)
  - Main conference dates: paper submission: January 26, 2017; Acceptance notifications: March 27, 2017; Camera-ready due: April 21, 2017
  - Organizing Committee: General Chair Dr. Helio Waldman (Federal University of ABC, Brazil), etc.
- HPSR 2018:
  - Location: Romania

- HPSR Steering Committee will be held on Dec. 7, 2016 at 11:00am  
The terms of two committee members end (one America; one Asia)

## **2. Welcome and Introduction**

The Chair, Dr. Abdelhamid Mellouk, opened the meeting and welcomed the attendees. Then all the attendees introduced themselves to the others. 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. Roberto Rojas-Cessa (NJIT) and Dr. Scott Fowler (Linkoping University) 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
- Workshop and Conference Chair: Nirwan Ansari
- Standardization Committee Liaison: Henry Sutton

## **3. Approval of the TC Meeting Minutes during ICC 2016**

The minutes of the last TC meeting held during ICC 2016 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/>

## **4. Reports from the Chairs**

### 1) Report from TAC

Not available yet. The TAC will be held at 7:30-9:30am on Wed. Dec. 7, 2016.

### 2) Report from GITC

Not available yet. The GITC will be held at 2:00pm on Wed. Dec. 7, 2016.

### 3) ComSoc Student Competition 2016

Dr. Roberto Rojas-Cessa reported the ComSoc Student Competition 2016.

- 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: 46 members (2 officers)
- Eligible submissions received: 36
- Winners announced in Globecom 2016:
- 2 first prizes (Ex aequo) and 7 Honorary Mentions

- Awards: 1 prize: \$2000 + plaque, 2nd prize: \$1000 +plaque
- More information:  
<http://www.comsoc.org/blog/ieee-comsoc-student-competitionscommunications-technology-changing-world-0>

#### 4) CSR-TC Scope Topics

The Chair showed the CSR-TC Scope Topics after suggestions received from CSR-TC members, and consolidated topics. The attendees discussed the topics and approved the topics.

#### 5) CSR-TC Website

Dr. Jian Tang reported the update of the CSR-TC website.

#### 6) Report from Industry Liaison

Henry Suthon could not attend the meeting. But he provided the report later, which is given as follows:

- P1926.1 for GICT 7 PAR Standard for a Functional Architecture of Distributed Energy Efficient Big Data Processing
- P1927.1 for GICT 5 PAR Standard for Services Provided by the Energy-efficient Orchestration and Management of Virtualized Distributed Data Centers Interconnected by a Virtualized Network
- P1928.1 for GICT 10 PAR Standard for a Mechanism for Energy Efficient Virtual Machine Placement
- P1929.1 for GICT 8 PAR An Architectural Framework for Energy Efficient Content Distribution
- PXXX.X Standard for an Architectural Framework for ROOF Computing Working Groups 1652, 1903, 1904, 1908, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1920, 2410
- ComSoc Standards Committees: DySPAN, PLC
- Jean-Philippe Faure provided the following detailed status for the Power Line Communications Standards Committee.
- P1901.1 Standard for medium frequency (less than 15 MHz) Power Line Communications for Smart Grid Applications
- The SASB approved the project in September. The WG will hold its first meeting on November 15 – 16, 2016 in Shenzhen, China.
- IEEE 1901-2010 Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications
- ISO/IEC JTC 1/SC 6/WG 1 shared with the PLCSC and ITU-T Q18/15 a first draft of coexistence between ISO/IEC 12139-1, IEEE 1901 and ITU-T G.hn. The PLCSC is preparing a response.
- IEEE 2030.5-2013 Standard for Smart Energy Profile Application Protocol
- At the last plenary meeting IEC PC118 passed a vote in favor of the adoption of 2030.5-2013 by IEC (5 Yes, 3 No). Next step is unclear. It will be discussed at the IEC SMB.

- P2030.5, project for a revision, is progressing.

## 5. Workshops and Conferences

### 1) Reports on ICC/Globecom

TC-CSR cosponsors the Next Generation Networks (NGN), Optical Networks and Systems (ONS), and Wireless Networks (WN) symposia at ICC and Globecom. Reports from the TC-CSR representatives on those symposia are presented.

- NGN@ICC 2016 (Kuala Lumpur)
  - Rami Langar, University of Paris 6, France
  - Shiwen Mao, Auburn University, USA
  - Abdelhamid Mellouk, University of Paris-Est, France
  - Report
  - 253 (198 reviewed, 51 withdrawn, 4 incomplete)
  - 117 papers accepted
  - 15 Sessions
- WNS@ICC 2016 (Kuala Lumpur)
  - Adlen Ksentini, University of Rennes, France
  - Mohammed Atiquzzaman, University of Oklahoma, USA
  - Jalel Ben-Othman, University of Paris 13, France
  - Report:
  - No. of submissions: 251
- ONS@ICC2016 (Kuala Lumpur)
  - Walter Cerroni, University of Bologna, Italy
  - Krishna M. Sivalingam, IIT Madras, Chennai, India
  - Report
  - 108 submissions
  - 55% on systems, 45% on networks
  - 43 papers accepted, acceptance rate: 39.8%
  - 18 papers on systems (42%), 25 on networks (58%)
  - 7 regular sessions + 2 interactive sessions
  - Comments: Despite the higher number of submitted papers on system topics, it seems that the average quality of networking papers was higher. However, among the top 11 papers, which scored 4 points or more, 7 are on systems, 4 on networks: we did get some very good papers on systems.
- NGN@GC2016 (Washington DC)
  - Roberto Rojas-Cessa, New Jersey Institute of Technology, USA
  - Periklis Chatzimisios, Alexander Technological Educational Institute of Thessaloniki, Greece
  - Xiaojun (Matt) Cao, Georgia State University, USA
  - Report:

Number of submissions received: 156  
Number of submissions accepted: 60  
Number of Sessions: 10

- WNS@GC2016 (Washington DC)
  - Jalel Ben-Othman, University of Paris 13, France
  - Shucheng Yu, University of Arkansas at Little Rock, USA
  - Mianxiong Dong, Muroran University, USA
  - Bechir Hamdaoui, Oregon State University, US
  - Report
  - 302 submissions
  - Number of submissions accepted: N/A
  - Number of Sessions: N/A
  
- ICC 2017 (Paris, France).
  - TP Symposia Chair : Abdelhamid Mellouk, UPEC, France
  - Dr. Abdelhamid Mellouk showed all the symposia and the corresponding number of submissions. There are a total of 3087 submissions.
  
- ICC 2017 (Paris, France).
  - Next Generation Networking Symp.
    - Shiwen Mao, Auburn University, USA
    - Mahesh K. Marina, University of Edinburgh, UK
    - Sidi-Mohammed Senouci, University of Bourgogne, France
    - 179 Submissions
  - Optical Networks and Systems Symp.
    - Grzegorz Danilewicz, Poznan University of Technology, USA
    - George Rouskas, North Carolina State University Raleigh, USA
    - 100 Submissions
  - Wireless Networking Symp.
    - Mohammed Atiquzzaman, University of Oklahoma, USA
    - Mehdi Bennis, University of Oulu, Finland
    - Jalel Ben-Othman, University of Paris 13, France
    - Shaowei Wang, Nanjing University, China
    - 321 Submissions
  
- GC 2017 (Singapore) nominations
  - Next Generation Networking
    - Walter Cerroni, Universita' di Bologna, Italy (OK)
  - Optical Networks and Systems
    - Mohammed Atiquzzaman, University of Oklahoma, USA
  - Wireless Networking
    - Stefano Giordano, Università di Pisa, Italy
  
- ICC 2018 (Kansas City, US) nominations

- Next Generation Networking  
Roberto Rojas-Cessa, New Jersey Institute of Technology, USA
  - Optical Networks and Systems  
Xavi Masip-Bruin, Technical University of Catalonia, Spain
  - Wireless Networking  
Jun Zheng, Southeast University (SEU), China
- GC 2018 (Abu Dhabi) nominations
    - Next Generation Networking  
Abdelhamid Mellouk, UPEC, France
    - Optical Networks and Systems  
Xavi Masip-Bruin, Technical University of Catalonia, Spain
    - Wireless Networking  
Jun Zheng, Southeast University (SEU), China
- 2) Report on GCN SoftCOM 2016 by Dinko Begusic, Nikola Rozic, Pascal Lorenz, Josko Radic, Petar Solic and Matko Saric

- The 24th International Conference on Software, Telecommunications and Computer Networks - SoftCOM 2016 was held in attractive ambience of the Radisson Blu Resort hotel, Split, September 18 to 20. The Conference was organized by the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB) and Croatian Communications and Information Society (CCIS) under the auspices of the Ministry of Science, Education and Sports, Croatian Academy of Engineering and Croatian Regulatory Agency for Network Industries. The Conference has been technically co-sponsored by the IEEE Communications Society (ComSoc).
- Researchers and experts from industry, research institutes and universities from 30 countries all around the world have submitted in total 170 papers for presentation at SoftCOM 2016. Submitted papers have been reviewed by more than 200 scientists from universities, institutes and ICT companies all over the world. 49% of submitted papers have been accepted for presentation within the technical program based on their contribution, relevance, conceptual clearness and overall quality.

## 6. 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;
- Award winners:  
2014 : Dr. Hussein Mouftah, University of Ottawa, Canada.

2015: Dr. Shiwen Mao, Auburn University, USA.

- The attendees discussed how to improve the number of candidatures since only one nomination was received for 2015 and 2016. It was suggested that the nomination committee can be proactive and should look around and reach out. In addition, Dr. Hussein Mouftah suggested the nominees of the technical achievement award do not have to be from this committee as long as the topic is related.

## 7. Other Business

- 1) Dr. Hussein Mouftah suggested to create a standardization liaison and remove industry liaison. Its main function of this liaison is to inform this committee about the standardization activities. Dr. Nirmala Shenoy from Rochester Institute of Technology agreed to take this position.
- 2) It was announced that IEEE Communication Magazine was looking for editors. The first decision needs to be made within 90 days. Each Associate Editor needs to take 3 papers per month.

The meeting was adjourned at 8:30am.

### List of attendees:

Rohit Abhishek	UMKC, USA	<a href="mailto:rasxc@umkc.edu">rasxc@umkc.edu</a>
Nirwan Ansari	NJIT, USA	<a href="mailto:ansari@njit.edu">ansari@njit.edu</a>
Mohammed Atiquzzaman	Univ. of Oklahoma, USA	<a href="mailto:atiq@ou.edu">atiq@ou.edu</a>
Xiaojun (Matt) Cao	Georgia State University, USA	<a href="mailto:cao@cs.gsu.edu">cao@cs.gsu.edu</a>
Walter Cerroni	University of Bologna, Italy	<a href="mailto:walter.cerroni@unibo.it">walter.cerroni@unibo.it</a>
Tarek El-Bawab	JSU, USA	<a href="mailto:telbawab@ieee.org">telbawab@ieee.org</a>
Scott Fowler	Linkoping University, Sweden	<a href="mailto:scott.fowler@liv.se">scott.fowler@liv.se</a>
Stefano Giordano	University of Pisa, Italy	<a href="mailto:stefano.giordano@unipi.it">stefano.giordano@unipi.it</a>
Xueping Huang	NJIT, USA	<a href="mailto:xh89@njit.edu">xh89@njit.edu</a>
Andrzej Jajszczyk	AGH U. of Science and Technology in Krakow, Poland	<a href="mailto:jajszczyk@kt.agh.edu.pl">jajszczyk@kt.agh.edu.pl</a>
Abbas Jamalipour	University of Sydney, Australia	<a href="mailto:a.jamalipour@ieee.org">a.jamalipour@ieee.org</a>
Cheng Li	Memorial University, Canada	<a href="mailto:licheng@mun.ca">licheng@mun.ca</a>

Xilong Liu	NJIT, USA	<a href="mailto:xl249@njit.edu">xl249@njit.edu</a>
Pascal Lorenz	UHA	<a href="mailto:lorenz@ieee.org">lorenz@ieee.org</a>
Deep Medhi	UMKC	<a href="mailto:dmedhi@umkc.edu">dmedhi@umkc.edu</a>
Abdelhamid Mellouk	Université Paris-Est Créteil, France	<a href="mailto:mellouk@u-pec.fr">mellouk@u-pec.fr</a>
Roberto Rojas-Cessa	NJIT, USA	<a href="mailto:roberto.rojas-cessa@njit.edu">roberto.rojas-cessa@njit.edu</a>
Nirmala Shenoy	Rochester Institute of Tech., USA	<a href="mailto:nxsvks@rit.edu">nxsvks@rit.edu</a>
Csaba Simon	HTE	<a href="mailto:simon@tneit.bme.hu">simon@tneit.bme.hu</a>
Jian Tang	Syracuse University, USA	<a href="mailto:jtang02@syr.edu">jtang02@syr.edu</a>
Guoliang Xue	Arizona State University, USA	<a href="mailto:xue@asu.edu">xue@asu.edu</a>
Dejun Yang	Colorado School of Mines, USA	<a href="mailto:djyang@mines.edu">djyang@mines.edu</a>
Kun Yang	Univ. of Essex, UK	<a href="mailto:kunyang@essex.ac.uk">kunyang@essex.ac.uk</a>
Baoxian Zhang	Univ. of CAS, China	<a href="mailto:bxzhang@ucas.ac.cn">bxzhang@ucas.ac.cn</a>
Jun Zheng	Southeast University, China	<a href="mailto:junzheng@seu.edu.cn">junzheng@seu.edu.cn</a>