



# Meeting Minutes

## 30 June 2020 – Virtual

<b>Document Title:</b>	Meeting Minutes
<b>Meeting:</b>	IEEE ICC 2020 CSIM Meeting
<b>CSIM - TC Chair:</b>	Burak Kantarci
<b>CSIM-TC Vice-Chair:</b>	Nizar Zorba
<b>CSIM-TC Secretary:</b>	Angelos Antonopoulos
<b>Meeting Recorder:</b>	Angelos Antonopoulos
<b>File:</b>	Minutes_ICC20.docx

Location/Room	Start (date and time)	Finish (date and time)
Virtual Meeting	30/06/2020 17:00 CEST	30/06/2020 19:10 CEST

## Document History

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## Purpose of Meeting

Annual meeting of the IEEE Technical Committee on Communications Systems Integration and Modeling (CSIM-TC) which took place in the context of IEEE ICC 2020 (virtually due to COVID-19).

## Agenda

Item	Topic
1.	Welcome and Introduction
2.	Approval of the Agenda
3.	Approval of Meeting Minutes IEEE GLOBECOM 2019 (Hawaii, USA)
4.	CSIM status
5.	CSIM Steering Committee
6.	CSIM Awards
7.	CSIM Newsletter
8.	COMSOC Students' Competition
9.	Special Interest Groups (SIGs)
10.	Publications/Member support and evolution
11.	COVID-19 Research in CSIM
12.	Reports from GITC/TCB/TEAC
13.	Sponsored Events
14.	Standardization activities
15.	CSIM Achievements and Action Points
16.	Other Business/Adjournment

## List of Participants

No	Name	Affiliation	Country
1	Burak Kantarci	University of Ottawa	Canada
2	Nizar Zorba	Qatar University	Qatar
3	Angelos Antonopoulos	CTTC	Spain
4	Nitin Gupta	National Institute of Technology Hamirpur	India
5	Zhiyan Chen	University of Ottawa	China
6	He Li	Muroran Institute of Technology	Japan
7	Michele Polese	Northeastern University	US
8	Michael Devetsikiotis	The University of New Mexico	USA
9	Eirini Eleni Tsiropoulou	University of New Mexico	USA
10	Marco Gramaglia	Universidad Carlos III de Madrid	Spain
11	Damla Turgut	University of Central Florida	USA
12	Melike Erol-Kantarci	University of Ottawa	Canada
13	Mubashir Husain Rehmani	Cork Institute of Technology	Ireland
14	Fabrizio Granelli	University of Trento	Italia
15	Moayad Aloqaily	xAnalytics Inc.	Canada
16	Symeon Papavassiliou	National Technical University of Athens	Greece
17	Mianxiong Dong	Muroran Institute of Technology	Japan
18	Jinxin Liu	Univeristy of Ottawa	Canada
19	Kun Yang	University of Essex	UK
20	Vincent Chan	ComSoc President	USA
21	Claudio Fiandrino	IMDEA Networks Institute	Spain
22	Christos Tselios	Citrix Systems Inc - University of Patras	Greece
23	Ferran Adelantado	Universitat Oberta de Catalunya	Spain
24	Muhammad Atif Ur Rehman	Hongik University South Korea	South Korea
25	Dario Bega	Nokia Bell Labs	Germany
26	Nelson Fonseca	State University of Campinas	Brazil
27	Yasir Saleem	Inria Lille - Nord Europe	France
28	Amr El-Wakeel	Queen's University/RMCC	Canada
29	Muneeb UI Hassan	Swinburne University of Technology	Australia
30	Sherali Zeadally	University of Kentucky	USA
31	Alessio Botta	Unina	Italy
32	Christos Verikoukis	CTTC	Spain
33	Mubashir Husain Rehmani	Cork Institute of Technology	Ireland
34	Murat Simsek	University of Ottawa	Canada
35	Virginia Pilloni	University of Cagliari	Italy
36	Stefano Giordano	University of Pisa	Italy
37	Frank Li	University of Agder	Norway
38	Petros Spachos	Professor	Canada
39	Sudip Misra	IIT Kharagpur	India
40	Shahid Mumtaz	IT, Portugal	Portugal
41	Luca Foschini	University of Bologna	Italy
42	Jonathan Rodriguez	Instituto de Telecomunicacoes	Portugal
43	Stefano Galli	STR	USA
44	Rodrigo Campos Bortoletto	IFSP	Brazil
45	ILIAS POLITIS	University of Patras	Greece
46	Xavier Costa Perez	NEC Laboratories Europe	Germany

47	R R Venkatesha Prasad	TU Delft	NL
48	Pascal Lorenz	University of Haute Alsace	France
49	Didem Cicek	University of Ottawa	Canada
50	Sudip Misra	IIT Kharagpur	India
51	Muhammad Atif Ur Rehman	Hongik University South Korea	South Korea
52	Yalin Sagduyu	Intelligent Automation Inc.	USA

## Meeting Minutes

### 1. Welcome and Introduction

Burak (CSIM chair) opened the meeting and welcomed the participants. The meeting was held online due to the COVID-19 situation. Vincent Chan (ComSoc President) and Stefano Galli (Director of Technical Committees) attended the meeting.

### 2. Approval of the Agenda

The agenda was presented to the attendees and approved with an additional item: Other business.

### 3. Approval of Meeting Minutes IEEE GLOBECOM 2019 (Hawaii, USA)

Before the minutes' approval, a discussion about the awards process took place (see CSIM Awards section below). Then the committee unanimously approved the minutes of the last CSIM TC meeting at IEEE Globecom 2019.

### 4. CSIM status

Burak explained the CSIM scope and domains of interest, as well as the process and stages for the members' involvement. He also provided some information about CSIM chairs with other roles in IEEE positions. He mentioned the number of members (737 at the moment of the meeting) and he provided details for subscribing in the TC. Burak also mentioned the need to introduce a definition for a voting member (which is not necessarily the same with member and active member). This was a recommendation from TCB meeting and the definition should be also included in CSIM PPs. Stefano Galli asked about the number of active members. Burak mentioned that there is a file that keeps track of the previous meetings. Stefano asked Angelos, who replied that the participation is listed in the minutes and the minutes are published online, so it is easy to check anytime if a member has voting rights. Burak mentioned that it is a good idea to keep track of the active members and update the definition of the voting members.

### 5. CSIM Steering Committee

Burak mentioned the CSIM steering committee, which is formed by past CSIM chairs, collaborates with the officers to ensure the smooth operation of the CSIM TC. Current Members: Nelson Fonseca, Fabrizio Granelli, Stefano Giordano, Christos Verikoukis and Charalampos Skianis.

## 6. CSIM Awards

Burak explained that all awards are monitored by ComSoc committees and all the relevant information (e.g., selection criteria, committees, etc.) is provided.

Nelson, as the chair of the awards committee this year, also listed some of the criteria: originality, technical relevance, scope of the committee. He also briefly explained the process: The members of the committee rank the papers and there is a discussion (mail or meeting) about the grades. Citations is not a good criterion, as most of the papers are recently published.

Stefano Galli mentioned that it is a good suggestion to include the awards committee in the webpage. Burak mentioned that this is received as a comment to have the website more up to date.

Burak explained again the process for the CSIM Awards, where 14 journal and 8 conference nominations were submitted. In the evaluation of the awards, the committee considered originality, technical relevance to CSIM TC scope, quality and timeliness for each nominated paper.

Evaluation committee for these awards consisted of Nelson Fonseca (chair) Periklis Chatzimisios; Michael Devetsikiotis; Ferran Adelantado i Freixer; Fabrizio Granelli; Toktam Mahmoodi; Shahid Mumtaz ; Christos Verikoukis

The Best Journal Paper Award has been extended to:

- 1) H. Li, K. Ota and M. Dong, "**LS-SDV: Virtual Network Management in Large-Scale Software-Defined IoT**," in IEEE Journal on Selected Areas in Communications, vol. 37, no. 8, pp. 1783-1793, Aug. 2019, doi: 10.1109/JSAC.2019.2927099

The Best Conference Paper Award has been extended to two papers:

- 1) D. Bega, M. Gramaglia, M. Fiore, A. Banchs and X. Costa-Perez, "**DeepCog: Cognitive Network Management in Sliced 5G Networks with Deep Learning**," IEEE INFOCOM 2019 - IEEE Conference on Computer Communications, Paris, France, 2019, pp. 280-288, doi: 10.1109/INFOCOM.2019.8737488.
- 2) P. Vamvakas, E. E. Tsiropoulou and S. Papavassiliou, "**Dynamic Spectrum Management in 5G Wireless Networks: A Real-Life Modeling Approach**," IEEE INFOCOM 2019 - IEEE Conference on Computer Communications, Paris, France, 2019, pp. 2134-2142, doi: 10.1109/INFOCOM.2019.8737443.

Authors of the best papers (He Li, Marco Gramaglia and Symeon Papavasileiou) gave short technical presentations.

## 7. CSIM Newsletter

Burak provided details and the table of contents of the last CSIM Newsletter (Spring 2020). The newsletter includes information about awards and distinctions granted to CSIM members, past and upcoming CSIM events (e.g., conferences, special issues, etc.) and research projects by CSIM members, among others. The Newsletter was distributed to the CSIM members through mailing list on 21/05/2020, and it will also be available in the website. Angelos, who was the responsible

editor for the newsletter, thanked the contributors and mentioned that the participation is always higher. He also mentioned that the Newsletter is a good way to be aware of the activities (apart from the mailing list).

## **8. COMSOC Students' Competition**

Burak briefly presented some aspects of the ComSoc student competition.

## **9. Special Interest Groups (SIGs)**

Burak presented the active CIMS SIGs, focusing on the activities of the SIG "System integration for joint communication and information processing in the 5G and Beyond Mobile Data Network Era" led by D. Xenakis, E. Kartsakli, F. Adelantado and A. Antonopoulos. Ferran presented the activities of the SIG during the last two years, where several seminars and one workshop have been organized. Regarding the future plans, another workshop is planned in Barcelona in mid-September (there will be updates due to the situation). Burak asked some more information about the workshop when it is possible.

## **10. Publications/Member support and evolution**

Burak mentioned that CSIM will support proposals for Special Issues related to CSIM scope in prestigious journals. He also presented a list with the ComSoc-oriented Special Issues organized by CSIM members, mentioning that more SIs are listed in the newsletter. The activities of two distinguished lecturers (Joel Rodrigues and Giorgio Quer) supported by CSIM were also presented. They work on topics relevant to CSIM and Burak presented updates on their invited lectures.

## **11. COVID-19 Research in CSIM**

Burak mentioned that Dr. Quer has made some contributions on COVID research. CAMAD 2020 will also include a COVID-19 panel covering 3 aspects: i) theoretical analysis and control, ii) impact of pandemic on communication networks, and iii) special COVID-19 projects involving modeling in communications (e.g., telemedicine, social distance, etc.)

Stefano Giordano mentioned that there are important activities in Italy (about 3D maps, etc.) by companies that will be invited in the Panel. Luca mentioned that it was very challenging to make a panel as the topic is very timely but at the end the panel is expected to be very strong.

## **12. Reports from GITC/TCB/TEAC**

GC 2020: 156 papers submitted in CQRM, the ranking compared to the other symposia is very good. Stefano Galli asked if the TC feels that is sufficiently represented in the symposia. Christos replied that the situation in GITC has been stabilized and CSIM usually asks only for CQRM. Burak mentioned that everything seems to be stable and smooth and no particular requests have to be made.

Stefano Galli clarified again that criteria for voting members should be defined. It is possible to associate active members with the voting members. Stefano mentioned that since active members are defined, probably no further action needs to be taken [in the TC P&P on that end](#).

## **13. Sponsored Events**

Regarding the technical endorsement of conferences and workshops, Burak presented the three (3) events that have been endorsed by CSIM (Luca Foschini is the responsible officer) since the last meeting in IEEE Globecom 2019.

Burak presented the chairs in the future sponsored events (GC, CAMAD, ICC). CQRM submitted papers in 2019 and 2020: maintain mainly 6% of the total submissions. Melike provided the timeline for the IEEE GC 2020 (notifications probably during August).

### **25<sup>th</sup> IEEE CAMAD**

Stefano Giordano thanked Luca and the TPC chairs. He mentioned that, unfortunately, the conference will be virtual and that it was difficult to organize it during this period. The cost of registration has been adapted to the situation (sponsorship from private companies has helped to keep the cost low). 74 submissions up to now. Luca mentioned that they are still working to provide a high quality technical programme and the COVID-19 panel.

### **IEEE CAMAD 2021**

Shahid presented IEEE CAMAD 2021, which will take place in Porto (hopefully physically). Shahid mentioned that he expects a high number of submissions if the COVID-19 situation has improved until then.

### **14. Standardization activities**

Stefano Giordano presented the standardization activities in the context of CSIM. He presented the expanding areas. Periklis Chatzimisios organized a relevant workshop in IEEE ICC 2020. Stefano explained the IEEE Standard Development Board process, as well as the emerging technologies standards (e.g., Tactile Internet). He highlighted the importance of open source material in IEEE standardization. He presented the relevant magazines and conferences where contributions can be published.

### **15. CSIM Achievements and Action Points**

Burak summarized the main CSIM achievements: i) The number of the subscribers have been increased (Current members: 737), ii) Two newsletters per year have been published, iii) Best Paper Awards during the last 3 years, iv) Standardization activities, and iv) SIGs in cutting edge research topics. Burak also listed some action points, focusing on attracting more female members and members from under-representative communities.

### **16. Other Business/Adjournment**

**Financial aspects:** Nelson mentioned that there is a total budget of 10.000 USD for all TCs and TCs could make requests to use this budget for their needs. Nelson tried to make a formal procedure to request money from this budget, however since some TCs have high requests, he preferred to have a case-by-case study according to the needs of each TC. Usually TCs do not know about this budget.

Interaction with other TCs: Vincent Chan asked about the interaction/communication with two ETIs: ETI-NI and ETI-ML. Burak replied that there has not been any formal discussion up to now with the two committees. Vincent mentioned that communication should be established soon, as they have asked to be TCs. Burak replied and said, they will initiate communication to figure

out where they can collaborate and how they differ from each other. Vincent also mentioned that even a new conference can be created to bring all layers together.

The meeting was adjourned at 19:10 CEST.