Meeting Minutes

15 April 2022 – Virtual

Document Title:	Meeting Minutes
Meeting:	IEEE ICC 2022 TCSN Meeting
TC Chair:	Damla Turgut
TC Vice-Chair:	De-Nian Yang
TC Secretary:	Burak Kantarci
Meeting Recorder:	Cynthia Sikora
File:	TCSN_MeetingMinutes_ICC22.pdf

Location/Room	Start (date and time)	Finish (date and time)
Virtual Meeting	4/15/2022 10am EST	4/15/2022 11am EST

Purpose of Meeting

Annual meeting of the IEEE Social Networks Technical Committee (TCSN) which took place in the context of IEEE ICC 2022 (virtually). This is the 13th TC meeting for the Technical Committee on Social Networks that has been established and functioning from January 1, 2016.

Agenda

Item	Topic
1.	Welcome and Introduction
2.	Approval of the Agenda
3.	Approval of Meeting Minutes IEEE GC 2021 (online)
4.	Scope of TCSN
5.	Distinguished Invited Speaker – Prof. Vincent Chan
6.	Standardization activities update – Prof. Charalampos Patrikakis
7.	TCSN members and recognitions (activities)
8.	TCSN Status
9.	Newsletter
10.	Journal Activities
11.	Volunteers for the SAC tracks in GCs and ICCs
12.	Special Interest Groups (SIGs)

List of Participants

Name	Affiliation
Damla Turgut (Chair)	University of Central Florida, USA
De Nian Yang (Vice Chair)	Academia Sinica, Taiwan
Burak Kantarci (Secretary)	University of Ottawa, Canada
Abderrahim Benslimane	Avignon University, France
Anna Maria Vegni	Roma Tre University, Italy
Aldri Santos	University of Minas Gerais, Brazil
Barbara Guidi	University of Pisa, Italy
Charalampos Patrikakis	University of West Attica, Greece
Claudio Marche	University of Cagliari, Italy
Cynthia Sikora	IEEE ComSoc Industry Outreach & Technical Activities Director, USA
Didem Cicek	University of Ottawa, Canada
Eirini Eleni Tsiropoulou	University of New Mexico, USA
Jelena Mišić	Ryerson University, Canada
Jie Hu	University of Electronic Science and Technology of China, China
Melike Erol-Kantarci	University of Ottawa, Canada
Hussein Mouftah	University of Ottawa, Canada
Murat Simsek	University of Ottawa, Canada
Neeli Prasad	Trusted Mobi, "VehicleAvatar Inc", USA
Shui Yu	University of Sidney
Symeon Papavassiliou	National Technical University of Athens, Greece
Valeria Loscri	Inria Lille, Nord Europe, France
Vincent W. S. Chan	MIT, USA
Vojislav Mišić	Ryerson University, Canada

Meeting Minutes

1. Welcome and Introduction

Damla Turgut (TCSN chair) opened the meeting and welcomed the participants. The meeting was held online due to the COVID-19 situation. Vincent Chan (ComSoc President) attended the meeting and gave an invited talk.

2. Approval of the Agenda

The agenda was presented to the attendees and approved.

- Motion: Burak Kantarci (University of Ottawa, Canada)
- Second: Neeli Prasad (Trusted Mobi, "VehicleAvatar Inc", USA)
- Voting: All in favor

3. Approval of Meeting Minutes IEEE GC 2021 (held online)

The committee unanimously approved the minutes of the last TCSN meeting at IEEE GC 2021. The minutes are also available online at the TCSN website.

4. TCSN Scope

Damla explained the TCSN scope and domains of interest, as well as members' involvement. She explained the nomination procedure for TC members to participate in conferences, endorsements, member elevation, and a nomination for distinguished lecturer appointments.

- TCSN serves as a forum for researchers and technologists to discuss the state-of-the-art, present their contributions, and foster the development of new emerging topical areas in social networks
- TCSN serves as ComSoc's focal point in the areas of social network, supporting IEEE ComSoc's activities (e.g., ComSoc's journals, magazines, conferences, IEEE standard activities, and the recognition and proposal of candidates) and organizing symposia, workshops, sessions and tutorials at ComSoc conferences
- Nominating suitable candidates for ComSoc and IEEE awards, proposing distinguished lecturer candidates, endorsing deserving candidates for the election to IEEE Senior Member and Fellow grade
- TCSN scope
  - Formation and evolution of human social networks
  - Information propagation and dissemination in human social networks
  - Small world phenomenon and its implication in telecommunication networks
  - Convergence of telecommunication networks and human social networks
  - Social-aware network solutions in wireless and wireline communications systems
  - Cross-layer design for social networks and the underlying communications platforms
  - AI for communications and networking
  - Optimization and protocol design for mobile social networks
  - Network graph modeling, measurements, simulations, and experiments
  - Analysis of dynamics and trends in the evolutions of social networks
  - Analysis and control of belief, influence, and rumor propagations in social environments
  - Analysis of social media, trust, and reputation
  - Privacy and security in social network
  - Social signal processing
  - Data mining, machine learning, information retrieval, and artificial intelligence in social contexts
  - Infrastructure, platform, protocol design, and optimization for mobile social clouds and social internet-of-things
  - Innovative applications in social networks and services for mobile internet, multimedia networks, mobile e-commerce, and cyber-physical systems
  - Multidisciplinary and interdisciplinary research on social networks
  - New applications and services

5. Distinguished Invited Speaker – Prof. Vincent Chan

TCSN invites the IEEE ComSoc President Vincent W. S. Chen to give a distinguished invited talk. The title of the distinguished invited talk is "Privacy, misinformation, and discrimination in online social networks."

Vincent W. S. Chan, the Joan and Irwin Jacobs Professor of EECS, MIT, received his BS(71), MS(71), EE(72), and Ph.D.(74) degrees in EE all from MIT. He is currently a member of the Claude E. Shannon Communication and Network Group at the Research Laboratory of Electronics of MIT. In July 1983, he initiated the Laser Intersatellite Transmission Experiment Program and in 1997, the follow-on GeoLITE Program. He also formed and served as PI the Next Generation Internet Consortium, ONRAMP among AT&T, Cabletron, MIT, Nortel and JDS, and a Satellite Networking Research Consortium formed between MIT, Motorola, Teledesic and Globalstar. He also has been active with several start-ups and was a director of a Fortune-500 company and chaired its technical advisory board. He is a Member of the Corporation of Draper Laboratory and is a member of Eta-Kappa-Nu, Tau-Beta-Pi and Sigma-Xi, and the Fellow of the IEEE and the Optical Society of America. He is currently the Chair of the Strategic Planning Committee and the President of the IEEE Communication Society.

6. Standardization activities update – Prof. Charalampos Patrikakis

Prof. Charalampos Patrikakis presents proposals on standard topics regarding projects Eunomia and VERITAS, including:

- Nine directives on information hygiene, which means a careful evaluation of the information that one is consuming and disseminating.

Guideline	Population	Intervention
GS1: Check whether the author is anonymous	H	H
GS2: Check who the author is (of post content)	M	M
GS3: Be wary of unusual top-level domain names, like ".com.co."	M	H
GS4: Have you heard of the outlet that published the story?	H	H
GS5: Check the social media account sharing the information and when it was created	M	M
GS6: Check whether the social media account or website linked is possible to be a pretend one, for example by imitating the logo?	L	L
GS7: Does the social media account post at all times during the day and night like a bot would?	H	L
GS8: Does the author use reliable sources (for example, well-established and respected media outlets)?	L	L
GS9: Was the information forwarded to you?	H	H

- Indicators on social media analysis / formal profile for social media accounts
  - **Posts related**
    - ✓ #replies
    - ✓ is reply
    - ✓ #retweets
    - ✓ #favorite
    - ✓ user mention
    - ✓ hashtags
    - ✓ media
  - **User related**
    - ✓ followers
    - ✓ following

- ✓ account age
- ✓ statuses/user_timeline
- **Network related**
  - ✓ centrality
  - ✓ community (e.g., Louvain)
  - ✓ pagerank

7. TCSN Members and Recognitions

Damla explained the definition of TC membership according to TCSN P&Ps:

- Any ComSoc member who has been active in the TC activities for the past three years, can be a member of the TCSN. It is also necessary to subscribe to the TCSN mailing list.
- A TC member shall attend (physically present or by teleconference) three or more of the prior six regularly scheduled TC meetings for the past three years, cast informed votes on TC business, and be encouraged to assist in the conduct of TC business.
- Individuals who are not ComSoc members are also welcome to participate in TC activities; however, they cannot be named TC members but collaborators.

Damla has presented the <u>invited talks, keynotes, and panels</u> that TCSN members have been involved in, as well as the awards that TCSN members have received. These include:

- **Prof. Damla Turgut**, University of Central Florida
  - Keynote address "Physical and computational modeling of smart homes,'' at ELEVATE'22, sponsored by IEEE IEM Student Branch and Computer Society of IEEE IEM, Kolkata Section, Region 10, April 14, 2022.
  - Panelist at Women In Engineering Workshop of the International Conference on the Design of Reliable Communication Networks (DRCN'22), March 31, 2022.
  - Invited Talk on "IoT-enabled smart homes and smart healthcare,'' ACM-W Chapter at University of Ottawa, March 2, 2022.
- **Prof. De-Nian Yang**, Academia Sinica, Taiwan
  - IEEE TPDS Award for Editorial Excellence.
- **Prof. Burak Kantarci,** University of Ottawa, Canada
  - Minister's Award of Excellence in Innovation and Entrepreneurship from Ontario Ministry of Colleges and Universities.
  - Invited Talk "Trustworthiness and Security in IoT Sensing," IEEE Canada Technology Leadership Webinar Series XI, January, 2022.
  - Things Happen Podcast Series by IoT North, "Innovating Smart Connected Vehicles and Cities"

8. TCSN Status

Damla presented the status of the TC. The mailing list currently has 1188 subscribers. The website is active and up to date. Email address for interaction with members was provided along with subscription information. TCSN is also active in social media. Links to Twitter, LinkedIn, and Facebook were also provided.

9. Newsletter

The newsletter is published twice a year in ICC and Globecom. 7 Issues have been published so far. De-Nian, Neeli, and Damla were the editors of issues 5 and 6, and Anna was the editor of issue 7. Contents of the latest newsletter were presented to the attendees and feedback was asked.

10. Journal Activities

TCSN has been involved in organizing several special issues. These include:

- IEEE Trans. on Green Communications and Networking (2021)
  - Collaborative Intelligence for Green Internet of Things in the 6G Era
    - ✓ Guest editors: Celimuge Wu, Kok-Lim Alvin Yau, Zonghua Zhang, Damla Turgut, Shiwen Mao
    - ✓ Submission deadline: December 10, 2021
    - ✓ Publication: June 2022
    - ✓ 74 submissions out of which 54 were reviewed and 20 moved to the second round
- IEEE IT Professional (2021)
  - Information Hygiene and the Fight against the Misinformation Info-demic
    - ✓ Guest editors: George Loukas, Stephen J. Andriole, San Murugesan
    - ✓ Publication: March/April 2022
- IEEE Communications Magazine (2020-2021)
  - Networking Technologies to Combat the COVID-19 Pandemic
    - ✓ Guest editors: Valeria Loscrí, Anna Maria Vegni, De-Nian Yang
    - ✓ Submission Deadline: 1 January 2021
    - ✓ Publication: September 2021
    - ✓ 41 papers submitted out of which 5 published
      - Quickest Detection and Forecast of Pandemic Outbreaks: Analysis of COVID-19 Waves
      - Personal Devices for Contact Tracing: Smart-phones and Wearables to Fight Covid-19
      - Integration of Video and Radio Technologies for Social Distancing
      - 5G and Beyond for Contact Tracing
      - Network-Based Contact Tracing for Detection of Covid19 Contagions: A Privacy-Preserving Approach
- IEEE Transactions on Network Science and Engineering (2020-2021)
  - Healthcare Social Analytics
    - ✓ Guest Editors: Ebrahim Bagheri, Fattane Zarrinkalam, Diana Inkpen, Daniel Dajun Zeng, and Christopher C. Yang
    - ✓ Submission Deadline: 1 November 2021
- IEEE Transactions on Network and Service Management (2022)
  - Machine Learning and Artificial Intelligence for Managing Networks, Systems, and Services
    - ✓ Topic of interest: **Social** and communication networks analysis
    - ✓ Guest Editors: Nur Zincir-Heywood (Lead), Robert Birke, Elias Bou-Harb, Giuliano Casale, Takeru Inoue, Neeraj Kumar, Hanan Lutfiyya, Deepak Puthal, Farhana Zulkernine

- ✓ Submission Deadline: 30 April 2022
- ✓ Publication Date: December 2022
- IEEE Open Journal of the Communications Society (2021-2022)
  - Blockchain-enabled Collaborative Cognitive Communication Systems
    - ✓ Topic of interest: Blockchain-enabled **Social** and Collaborative Computing Systems
    - ✓ Guest Editors: Muddesar Iqbal (Lead), Shancang Li, Xinheng Wang, Ashutosh Dutta, Wei Cai, Xavier Costa-Pérez
    - ✓ Submission Deadline: 31 December 2021
    - ✓ Publication: First Quarter 2022

11. Volunteers for the SAC tracks in GCs and ICCs and other activities

Damla presented the volunteers of the TC for current and future conferences. These include:

- ICC 2022 Seoul:
  - Rep: Abderrahim Benslimane
  - 25 submissions (review in progress)
- GC 2022 Rio de Janeiro:
  - Rep: Neeli Prasad
- ICC 2023 Rome:
  - Rep: De-Nian Yang
- GC 2023 Kuala Lumpur:
  - Rep: Burak Kantarci
- ICC 2024 Denver:
  - Rep: Eirini Eleni Tsiropoulou
- GC 2024:
  - Rep: Anna Maria Vegni
- ICC 2025:
  - Rep: Valeria Loscri

Active TC members are sought for the SN track of the SAC symposium in ICC/Globecom. Damla has explained the goals and responsibilities of track chairs in future conferences: Update topics in CFP. Advertise the CFP on social media. Advertise the CFP to the authors of the previous symposiums. Advertise the CFP to the authors of previous ICCs and GCs. Regional mailing lists. Update TPC members in TCSN (we need to incentivize new people)

TCSN volunteers were also introduced. Current voluntary positions are as follows:

- Web: De-Nian Yang (Academia Sinica)
- Newsletters: Anna Maria Vegni (Roma Tre University, Italy) [Twice a year at ICC and Globecom]
- Membership development: Eirini Eleni Tsiropoulou (University of New Mexico, USA) & Burak Kantarci (University of Ottawa, Canada)
- Awards Committee: TCSN will keep working on this. Diversity is a key objective when forming and running the awards committee.
- Industry liaison: Charalampos Patrikakis (University of West Attica, Greece)
- Liaison to ComSoc Standardization Board: Charalampos Patrikakis (University of West Attica, Greece)
  - Prof. Vincent Chan mentioned that IEEE is collaborating with industry in Silicon Valley to discuss which topics should be standardized and how to do it.

- Liaisons to TSCBD: to be determined
- Marketing: Neeli Prasad (Trusted Mobi, "VehicleAvatar Inc", USA) and De-Nian Yang (Academia Sinica)

12. Special Interest Groups (SIGs)

TCSN calls for Special Interest Groups. Interested members should contact TCSN officers with a scope, proposed activities, and a liaison to other TCs. TCSN will support SIG activities by technically co-sponsoring workshops and conferences, promoting seminars and talks, and organizing special issues in journals.

There is a call for interest in liaison with other TCs. Interested members are encouraged to contact TCSN officers. The objective is to promote joint activities of interest, coordinate initiatives, and organize special issues in journals.

A new SIG was presented. **SIoA SIG: Social Internet of Anything**

SIG Officers include Anna Maria Vegni (Chair), Valeria Loscri (Co-Chair), and Abderrahim Benslimane (Senior Advisor).

The Scope of SIoA SIG is as follows: The Social Internet of Anything Special Interest Group (SIoA SIG) of the IEEE Technical on Social Networks (SN) promotes research and development in the emerging area of social networking applied to communication networks, ranging from traditional IoT networks, including Internet of Vehicles, Internet of Flying devices, Internet of Medical devices, till Internet of People, where social features are relevant and exploitable for communication and networking purposes. Due to this huge application field, not limited to IoT, and since social aspects can find applicability in different fields, we extend the definition of Social IoT to Social Internet of Anythings. In this context, we are aware that new threats can emerge and make the SIoA more vulnerable to cyber-attacks. The SIoA will focus on research activities on all these aspects. SIoA SIG aims to provide a platform for researchers and practitioners from academia and industry to discuss relevant topics and exchange views on the important issues of SIoA provisioning, social networking, and connectivity, social community detection and prediction, social ties and hub nodes for communication networks, cross-layer design, and inter-operability between communication networks and social networks. It will also assist the TCSN by organizing and supporting ComSoc-sponsored conferences and workshops, special issues, and feature topics of relevant journals.

Since the creation of the SIoA SIG, the Chairs have advanced in the definition of a logo that better depicts the main topics covered by the SIG. A Logo Creation Contest initiative has been suggested in order to involve all the interested members of TCSN, especially students and post-docs, to send in their logo design idea.

The SIG SIoA Chairs will select the best, most appropriate and suitable logo, whose creator will be awarded of a free registration to the 1st Intl. Workshop on Social Internet of Anythings, in conjunction with IEEE WiMob 2022. Paper submission deadline for the workshop: July 31, 2022.

- https://sn.committees.comsoc.org/call-for-papers/the-1st-international-workshop-on-social-internet-of-anything-sioa22/
- http://www.wimob.org/wimob2022/index.html

Invited seminars of SIoA SIG are expected to be delivered every two months by selected researchers in the field of social networking and communications.

- The 1st Invited Seminar was delivered by Prof. Iera, on February 25, 2022.
- The 2nd Invited Seminar will be delivered by Prof. Morabito, on April 29, 2022. (Registration link: https://forms.gle/snGNueqy39r6mNYx7)

The meeting was adjourned at 11am EST.

- Motion: De-Nian Yang (Academia Sinica)
- Second: Burak Kantarci (University of Ottawa, Canada)
- Voting: