

Meeting Minutes

21 November 2022 – Virtual

Document Title:	Meeting Minutes
Meeting:	IEEE GC 2022 TCSN Meeting
TC Chair:	Damla Turgut
TC Vice-Chair:	De-Nian Yang
TC Secretary:	Burak Kantarci
Meeting Recorder:	Cynthia Sikora
File:	TCSN_MeetingMinutes_GC22.pdf

Location/Room	Start (date and time)	Finish (date and time)
Virtual Meeting	11/21/2022 11am EST	11/21/2022 12pm EST

Document History

Date	Comments
4/15/2023	Document Created
4/15/2023	Initial Version

Purpose of Meeting

Annual meeting of the IEEE Social Networks Technical Committee (TCSN) which took place in the context of IEEE GC 2022 (virtually). This is the 14th 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 ICC 2022 (online)
4.	Scope of TCSN
5.	Standardization activities update – Prof. Charalampos Patrikakis
6.	TCSN members and recognitions (activities)
7.	TCSN Status
8.	Newsletter
9.	Journal Activities
10.	Volunteers for the SAC tracks in GCs and ICCs
11.	TC Restructure
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
Abd-Elhamid Taha	Alfaisal University, Saudi Arabia
Abderrahim Benslimane	Avignon University, France
Anna Maria Vegni	Roma Tre University, Italy
Ayman Radwan	University of Aveiro, Portugal
Barbara Guidi	University of Pisa, Italy
Charalampos Patrikakis	University of West Attica, Greece
Chih-Yu Wang	Academia Sinica, Taiwan
Claudio Marche	University of Cagliari, Italy
Eirini Eleni Tsiropoulou	University of New Mexico, USA
Frank Li	University of Agder, Norway
Hussein Mouftah	University of Ottawa, Canada
Karen Pannullo	IEEE ComSoc Industry Outreach & Technical Activities Director, USA
Jelena Mišić	Ryerson University, Canada
Melike Erol-Kantarci	University of Ottawa, Canada
Michele Nitti	University of Cagliari, Italy
Pascal Lorenz	University of Haute Alsace
Roberto Moreno	Sensolabs SpA, Chile
Shiwen Mao	Auburn University, USA
Symeon Papavassiliou	National Technical University of Athens, Greece
Valeria Loscri	Inria Lille, Nord Europe, France

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)

3. Approval of Meeting Minutes IEEE ICC 2022 (held online)

The committee unanimously approved the minutes of the last TCSN meeting at IEEE ICC 2022. 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. Standardization activities update – Prof. Charalampos Patrikakis

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

- In the last episode
 - Eunomia: 9 directives on information hygiene
 - VERITAS (deVEloping scientific Research with ethIcs and inTegrity for shAred benefitS)
 - Indicators on Social media analysis
- In this episode
 - Standard for the process of identifying and rating the trustworthiness of news resources
 - Collaboration with VERITAS with objectives (e.g., spectrum and protocol of the stewards of trust and addressing challenges of open science and science-society co-creation)
- In the next episode
 - Explore mastodon
 - Investigate ways to link IEEE publications with Social Media
 - Contact IEEE P0701 group

6. 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 invited talks, keynotes, and panels 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
 - IEEE Virtual Distinguished Lecture “Communication, computation, and privacy trade-off in machine learning for smart environments,” hosted by IEEE Egypt Section, September 15, 2022
 - Keynote address “When homes are too smart for their own good: physical and computational modeling of smart homes,” at the 25th International Symposium on Wireless Personal Multimedia Communications (WPMC’22), November 2, 2022
 - (Upcoming) Invited talk “Increasing the participation of women and minorities in STEM at a large metropolitan university, ” at Women in Communications Engineering (WICE) Workshop in IEEE Latin-American Conference on Communications, November 30, 2022
 - (Upcoming) Mentor at Joint WICE/YP Mentoring event at IEEE GC’22, December 5, 2022.
- **Prof. De-Nian Yang**, Academia Sinica, Taiwan
 - IEEE TPDS Award for Editorial Excellence, USA (2022)

- **Prof. Burak Kantarci**, University of Ottawa, Canada
 - (Upcoming) Speaker: “ML/DL-Backed Security and Safety of Cyber-Physical Systems and 5G-Enabled Critical Infrastructures”, BSides Ottawa, Nov.2022, Kanata, Ontario, Canada
 - (Upcoming) Panelist: “AI/Machine Learning-Enabled (CAV) in the Era of 5G, 6G, and Beyond” in conjunction with IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Gandhinagar, Gujarat, India, Dec. 2022
 - Invited Speaker: “RF Fingerprinting under Impaired Channels,” Wireless World Research Forum-Connected Vehicles Workgroup, Abu Dhabi, UAE., Nov 2022
 - Invited Speaker: “AI-enabled Autonomous Vehicles-Driven Services for Secure, Sustainable and Healthy Communities,” Impact of 5G and Beyond on Connected and Autonomous Vehicles Workshop-World Wireless Research Forum, Ottawa, ON, May 2022

7. TCSN Status

Damla presented the status of the TC. The mailing list currently has 1205 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.

8. Newsletter

The newsletter is published twice a year in ICC and Globecom. 9 Issues have been published so far. De-Nian, Neeli, and Damla were the editors of issues 5 and 6; Anna was the editor of issue 7; and Anna Maria Vegni was the editor of issues 8 and 9. Contents of the latest newsletter were presented to the attendees and feedback was asked.

9. 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
 - ✓ Topic of interest: Collaborative Green IoT technologies for 6G services
 - ✓ Guest editors: Celimuge Wu, Kok-Lim Alvin Yau, Zonghua Zhang, Damla Turgut, Shiwen Mao
 - ✓ Publication: December 2022
- IEEE Communications Magazine
 - Affective Computing and Communications Research, Technologies, Management, and Applications
 - ✓ Topic of interest: Application of emotion sensing in communications, including emotions in **social** networks communications
 - ✓ Guest editors: Abd-Elhamid M. Taha, Ajjen Joshi, M. Fatima Domingues, Mehmet Ulema
 - ✓ Submission Deadline: 1 December 2022
 - ✓ Final Accepted Manuscript Due: 15 April 2023

- ✓ Publication Date: June 2023
- IEEE Internet of Things Magazine
 - Data Science Driven Intelligent IoT
 - ✓ Topic of interest: Application of intelligent IoT to **social** IoT
 - ✓ Guest Editors: Pin-Han Ho (Lead), Shih Yu Chang, James She, Yuren You, Min Chen, János Tapolcai
 - ✓ Submission Deadline: December 31 2022
 - ✓ Final Manuscript Due: 15 March 2023
 - ✓ Expected Publication Date: June 2023
- IEEE Networking Letters
 - Special Issue on Networking Enablers for 6G Use Cases
 - ✓ Topic of interest: Bridging agility, flexibility, and personalized user experience
 - ✓ Guest Editors: Burak Kantarci (Lead), Paolo Monti, Raouf Boutaba
 - ✓ Submission Deadline: December 15 2022
 - ✓ Publication Date: 2nd Quarter 2023
- IEEE Communications Magazine
 - Metaverse
 - ✓ Topic of interest: Sustainability, **Social** Good
 - ✓ Guest editors: Mischa Dohler, Mar Gonzalez Franco, Young-Gab Kim, Timoni West
 - ✓ Submission Deadline: 1 October 2022
 - ✓ Final Accepted Manuscript Due: 28 February 2023
 - ✓ Publication: May 2023
- IEEE Communications Magazine
 - The Evolution of Telecom Business, Economy, Policies and Regulations
 - ✓ Topic of interest: The telecommunication industry's evolution in terms of future technologies and **social** environment
 - ✓ Guest Editors: Hashem Sherif, Eva Ibarrola, Kai Jakobs, Duncan Sparrell
 - ✓ Submission Deadline: 1 October 2022
 - ✓ Final Accepted Manuscript Due: 1 January 2023
 - ✓ Publication Date: March 2023
- IEEE Transactions on Network and Service Management
 - Machine Learning and Artificial Intelligence for Managing Networks, Systems, and Services
 - ✓ Topic of interest: Application Domains and Management Paradigms: **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

10. 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: Neeraj Kumar
- ICC 2024 Denver:
 - Rep: Eirini Eleni Tsiropoulou
- GC 2024 Cape Town, South Africa:
 - Rep: Anna Maria Vegni
- ICC 2025 Montreal, Canada:
 - Rep: Valeria Loscri
- GC 2025 TBD:
 - Rep:

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: to be determined [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)

11. TC Restructure

Why should the TC be restructured?

- Lack of industry participation
- Lack of diversity in YP and student members
- Lack of coordination to form SIGs
- Lack of support for local chapters globally
- Lack of support for standard development
- Lack of educational services to members
- Lack of guidelines in creating TC awards

- Significant overlapping areas among some TCs

IEEE ComSoc has established an iterative procedure to involve TCs/ICs in the process.

- Monthly TC Restructure Sub-committee meetings: the second-to-last Wednesday of each month (Mar. 25, May 4, June 22, July 20, Aug. 24, Oct. 21, 2022)
- Monthly TC Board meetings: the last Wednesday of each month (Dec. 2021, May 11, June 29, July 27, Aug. 31, Oct. 27, 2022)

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. **SloA SIG: Social Internet of Anything**

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

The Scope of SloA SIG is as follows: The Social Internet of Anything Special Interest Group (SloA 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 SloA more vulnerable to cyber-attacks. The SloA will focus on research activities on all these aspects. SloA 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 SloA provisioning, social networking, and connectivity, social community detection and prediction, social ties and hub nodes for communication networks, cross-layer design, and interoperability 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 SloA 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 SloA 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 was delivered by Prof. Morabito, on April 29, 2022. (Registration link: <https://forms.gle/snGNueqy39r6mNYx7>)
- The 3rd Invited Seminar will be delivered by Prof. Dr. Valencia, on October 28, 2022. (Registration link: <https://forms.gle/tuUjKF9xmMuPWnMA6>)

The meeting was adjourned at 12pm EST.