



Meeting Minutes 10 June 2024 – Denver

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Purpose of Meeting

Annual meeting of the IEEE Social Networks Technical Committee (TCSN), which took place in the context of IEEE GC 2023 (in Kuala Lumpur). This is the 17th 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 2023 (online)
4.	Scope of TCSN
5.	TCSN members and recognitions (activities)
6.	TCSN Status
7.	Newsletter
8.	Journal Activities
9.	Volunteers for the SAC tracks in GCs and ICCs
10.	Special Interest Groups (SIGs)

List of Participants

Name	Affiliation
De-Nian Yang (Chair)	Academia Sinica, Taiwan
Burak Kantarci (Vice Chair)	University of Ottawa, Canada
Abderrahim Benslimane (Secretary)	Avignon University
Barbara Guidi	University of Pisa
Chih-Wei Huang	National Central University
Claudio Marche	University of Cagliari
Damla Turgut	University of Central Florida
Dusit (Tao) Niyato	Nanyang Technological University
Eirini Eleni Tsiropoulou	University of New Mexico
Guoliang (Larry) Xue	Arizona State University
Jelena Misic	Toronto Metropolitan University
Jing Deng	University of North Carolina at Greensboro
Luca Foschini	University of Bologna
Michele Nitti	University of Cagliari
Minrui Xu	Nanyang Technological University
Neeli Prasad	SmartAvatar B.V./TrustedMobi "VehicleAvatar Inc."
Pascal Lorenz	University of Haute Alsace
Petros Spachos	University of Guelph
Qiang (John) Ye	University of Calgary
Sang W Kim	Iowa State University
Shui Yu	University of Technology Sydney
Tamer ElBatt	The American University of Cairo
Vincent W.S. Chan	MIT's Research Laboratory of Electronics
Vojislav Misic	Toronto Metropolitan University

Meeting Minutes

1. Welcome and Introduction

De-Nian Yang (TCSN chair) opened the meeting and welcomed the participants. The meeting was held online.

2. Approval of the Agenda

The agenda was presented to the attendees and approved.

- Motion:
- Second:
- Voting:

3. Approval of Meeting Minutes IEEE GC 2023 (held in Kuala Lumpur)

IEEE ICC 2024
Meeting Minutes

The committee unanimously approved the minutes of the last TCSN meeting at IEEE GC 2023. The minutes are also available online at the TCSN website.

4. TCSN Scope

De-Nian 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
 - Al 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. TCSN Members and Recognitions

De-Nian 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.

De-Nian has presented the <u>invited talks</u>, <u>keynotes</u>, <u>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

- Pegasus Professor, University of Central Florida, 2024 [Highest Faculty Recognition at UCF]
- IEEE ComSoC Distinguished Lecturer, 2021-2025
- IEEE ComSoC Women in Engineering (WIE) Distinguished Lecturer, 2024
- Editor-In-Chief, Computer Communications (Elsevier), Jan. 2024 present
- Guest speaker at FSW Women In STEM Association, March 5, 2024
- Invited talk: "Privacy in smart healthcare," WPMC 2023
- Invited talk: "Bringing privacy into the picture: new optimization goals for ML/AI in smart environments," at the Colorado State University, November 1, 2023
- IEEE Comsoc Distinguished Lecture: "I Did Not Sign Up for This: Limited Sharing in Privacy-Aware Smart Environments," hosted by New Jersey Institute of Technology, February 23, 2024
- TPC Co-Chair, IEEE SmartGridComm 2024
- One of the co-organizers of N2Women and WICE Workshop, Globecom 2023

Prof. Burak Kantarci, University of Ottawa

- IEEE Communications Software Technical Committee 2023 Technical Achievement Award for contributions to "AI/ML-enabled communication network security and trustworthy sensing systems for the Internet of Things"
- Best Student Paper Award in IEEE Virtual Conference on Communications (VCC 2023)
- Invited Speaker: "AI-Driven Security of Connected and Autonomous Vehicles in Challenged Settings: B5G and at the dawn of 6G", Wireless World Research Forum (WWRF) Huddle 2024 Workshop on Shaping the Future of CAVs: the Role of 6G, AI, Machine Learning and Io
- Panelist in IEEE ANTS 2023
 - Machine Learning in Future Wireless Networks: A Major Revolution or a Small Evolution?
 - AI/ML-Enabled Connected Vehicles in the Era of 6G
- General chair, IEEE WF-IoT 2024

- General Chair, Workshop on Machine Learning and Deep Learning for Wireless Security, IEEE Globecom 2024
- Symposium Chair, IEEE ICNC 2025: Al and Machine Learning for Communications and Networking (AMCN)

Prof. Abderrahim Benslimane, Avignon University

- IEEE Vehicular Technology Society Distinguished Lecturer, 2020-2024
- Keynote: Internet of Things: Monitoring and optimization challenges for Security issues, IEEE IRASET 2024
- Keynote: Monitoring Internet of Things: challenges and optimizations, EAI SGIOT 2023
- IEEE VTS Distinguished talk: "Monitoring Internet of Things: challenges and optimizations", IEEE Leadership Summit, IEEE Education Society, Oct. 2023
- Steering Committee Chair, IEEE Wimob 2024
- Symposium Chair, IEEE ICNC 2024
- Dr. Neeli Prasad, SmartAvatar B.V./TrustedMobi "VehicleAvatar Inc."
 - Plenary Session Talk: The Human-AI Collaboration: Navigating the Ethical and Digital Privacy Challenges of the Digital Age, COMS2, 2024
 - Keynote speech: the Human-Al Collaboration: Navigating the Ethical and Digital Privacy Challenges of the Digital Age, CONASENSE Workshop, IEEE WPMC 2023
 - Panelist at the 2nd Workshop on Enabling Security, Trust, and Privacy in 6G
 Wireless Systems, IEEE ICC 2024
 - TPC Co-Chair, IEEE WPMC 2023
 - Professional Networking & Mentorship Chair, IEEE Vehicular Technology Society
 - TPC Co-Chair, Workshop on 6G for Connected and Immersive Intelligence, IEEE WCNC 2024

• Prof. De-Nian Yang, Academia Sinica

- Associate Editor of IEEE TMM, TPDS, ACM TIST, and ACM CSUR
- Workshop Chair of IEEE Globecom 2025
- PC Chair of PAKDD 2024

Prof. Eirini Eleni Tsiropoulou, Univ. of New Mexico

- Research and Creative Works Leader Award, UNM, 2023
- Steering Committee Member, IEEE HPSR 2023-2025
- Mentor, YP mentoring session in ICC 2024
- Track Chair, IEEE WPMC 2023

Prof. Jelena Misic, Toronto Metropolitan University

- IEEE Vehicular Technology Society Distinguished Speaker, 2017-2024
- Invited talk: Deploying Proof of Stake and Delegated Proof of Stake consensus protocols for blockchains in IoT environments, IEEE ICNC 2024
- Prof. Patrikakis Charalampos, University of West Attica

- IEEE Computer Society Distinguished Visitor, 2023-2025
- ITiP Symposium Chair, IEEE COMPSAC 2024
- Panelist, IEEE ICDAS 2023
- Editor In Chief, IEEE IT Professional Magazine
- Chairman of the Technology Transfer, Innovation and Start-up Entrepreneurship Committee, University of West Attica

6. TCSN Status

De-Nian presented the status of the TC. The mailing list currently has 1213 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 X (formerly Twitter), LinkedIn, and Facebook were also provided.

7. Newsletter

The newsletter is published twice a year in ICC and Globecom. 13 Issues have been published so far. De-Nian, Damla, and Burak were the editors of issue 10; Claudio Marche was the editor of issues 11, 12, and 13. Contents of the latest newsletter were presented to the attendees and feedback was asked.

8. Journal Activities

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

- IEEE Open Journal of the Communications Society
 - Industrial Communication Networks (ICNets) for Industry 5.0
 - ✓ Topic of interest: Virtualization techniques (**Metaverse** and Digital Twin) for ICNets
 - ✓ Guest editors: Kapal Dev (Lead), Luca Foschini, Cedric Westphal, Chih-Lin I, Sunder Ali Khowaja
 - ✓ Manuscript Submission Deadline: 31 December 2024
 - ✓ Publication Date: Third Quarter 2025
- IEEE Open Journal of the Communications Society
 - Emerging Modulation Techniques Towards 6G Networks
 - ✓ Topic of interest: Advanced ISAC waveform design for 6G, which is a key enabler for next-generation applications like **metaverse** and robotics
 - ✓ Guest editors: Miaowen Wen (Lead), Tianqi Mao, Ertugrul Basar, Gunes Karabulut-Kurt, Zhaocheng Wang, Naofal Al-Dhahir
 - ✓ Manuscript Submission Deadline: 31 August 2024
 - ✓ Publication Date: Fourth Quarter 2024
- IEEE Networking Letters
 - Special Issue on Advances in AI for 6G Networks

- ✓ Topic of interest (network context): internetworking and Internet of things; virtual, overlay, and online **social** networks, etc.
- ✓ Guest editors: Hatim Chergui (Lead), Kamel Tourki, Jun Wu
- ✓ Manuscript Submission Deadline: 31 July 2024
- ✓ First Round of Decision Notification: 31 August 2024
- ✓ Final Decision: 30 September 2024
- ✓ Final Manuscript Due: 15 October 2024
- ✓ Target Publication Date: Fourth Quarter 2024

• IEEE Network

- Edge Intelligence in 6G Networks
 - ✓ Topic of interest: Edge intelligence for emerging 6G applications such as autonomous driving, XR, volumetric video streaming, **metaverse**, GPT-like intelligent assistant, digital twin, smart health, law enforcement, and transportation.
 - ✓ Guest editors: Wei Gong, Yifei Zhu, Edith C.H. Ngai, Jiangchuan Liu, Urs Hengartner
 - ✓ Submission Deadline: 1 July 2024
 - ✓ Initial Decision: 1 October 2024
 - ✓ Revised Manuscripts: 1 November 2024
 - ✓ Final Decision: 1 December 2024
 - ✓ Final Manuscripts: 10 December 2024
 - ✓ Publication Date: January/February 2025
- IEEE Open Journal of the Communications Society
 - Challenges and Opportunities in Metaverse-based Communication and Networking
 - ✓ Topic of interest: Computing in the network for the **Metaverse**; Information-centric **Metaverse**
 - ✓ Guest editors: Muhammad Atif Ur Rehman (Lead), Spyridon Mastorakis, Pietro Manzoni, Waqas Khalid, Byung Seo Kim, Tooska Dargahi
 - ✓ Submission Deadline: 30 April 2024
 - ✓ Publication Date: Third Quarter 2024
- IEEE Transactions on Network and Service Management
 - Networks, Systems and Services Operations and Management through Intelligence
 - ✓ Topic of interest: Social and communication networks analysis
 - ✓ Guest editors: Nur Zincir-Heywood (Lead), Alberto Leon-Garcia, Robert Birke, Hanan Lutfiyya, Elias Bou-Harb, Deepak Puthal, Hossam Hassanein, Abdallah Shami, Takeru Inoue, Natalia Stakhanova, Neeraj Kumar
 - ✓ Submission Deadline: 20 June 2023
 - ✓ Publication Date: March 2024

- IEEE Transactions on Network Science and Engineering
 - Next-generation Traffic Measurement with Network-wide Perspective and Artificial Intelligence
 - ✓ Topic of interest: Network-wide and/or Al-powered traffic measurement for online **social** networks
 - ✓ Guest editors: He Huang (Lead), Haipeng Dai, Shigang Chen, Amirhosein Taherkordi, Ran Ben Basat, Jun (Jim) Xu
 - ✓ Submission Deadline: 15 January 2023
 - ✓ Revised Manuscripts Due: 1 June 2023
 - ✓ Publication Date: Apr. 2024
- IEEE Journal on Selected Areas in Communications
 - Human-Centric Communication and Networking for Metaverse over 5G and Beyond Networks
 - ✓ Topic of interest: Human-attention-aware content delivery in **metaverse**; crowdsensing and analytics of user behavior data in **metaverse**
 - ✓ Guest editors: Peng Li (Lead), Mehrdad Dianati, Song Guo, Nirwan Ansari, Lin Cai
 - ✓ Submission Deadline: 15 March 2023
 - ✓ Publication Date: Feb. 2024

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

De-Nian presented the volunteers of the TC for current and future conferences. These include:

- ICC 2023 Rome:
 - Rep: De-Nian Yang
- GC 2023 Kuala Lumpur:
 - Rep: Burak Kantarci
- ICC 2024 Denver:
 - Rep: Eirini Eleni Tsiropoulo
- GC 2024 Cape Town, South Africa:
 - Rep: Anna Maria Vegni
- ICC 2025 Montreal, Canada:
 - Rep: Valeria Loscri
- GC 2025 Taipei, Taiwan:
 - Rep: De-Nian Yang
- ICC 2026, Glasgow, Scotland
 - Rep: Abderrahim Benslimane
- GC 2026, Macau, China
 - Rep: TBD

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: Claudio Marche [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: Shui Yu (University of Sydney)
- Marketing: Neeli Prasad (Trusted Mobi, "VehicleAvatar Inc", USA) and De-Nian Yang (Academia Sinica)

10. 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.

Two SIGs have been presented. **SIoA SIG: Social Internet of Anything**; **ToSN SIG: Special Interest Group on TRUSTWORTHINESS ON SOCIAL NETWORKS**

SIOA 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 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 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.

In the framework of SIoA SIG, we submitted **SocMeta project** which has been selected for funding by IEEE ComSoc under the TC Innovation Project initiative.

- Main objective: We will focus on how the Metaverse will revolutionize the existing social networking features, applied to different contexts, from Social Internet of Things to Vehicular Social Networks, as well Online Social Networks.
- Main tasks
 - Task 1. Definition and analysis of social networking features in Metaverse
 - Task 2. Definition of a new framework for integrated Metaverse with traditional online social networks
 - **Task 3.** Cross-layer design and inter-operability between communication networks and social networks in AR/VR scenarios
 - Task 4. Analysis of security and trustworthiness issues of nodes in AR/VR
- SocMeta main topics
 - Features of social networking in Metaverse
 - Social networking for AR/VR/XR
 - Security and privacy issues in Metaverse
 - Definition of a framework for integrated Metaverse with traditional online social networks
 - Analysis of social networking features among Digital Twins
 - Issues arisen by the overlapping of physical world with virtual and extended world
- The *First Workshop on Social Networking in Metaverse* has been hosted by Roma Tre University (Italy) on December 22, 2023.
 - Two keynote speakers
 - Dr. Tania Lorido-Botran (Roblox, USA): Metaverse, Metastability and Beyond
 - Prof. Silvia Giordano (SUSPI, Switzerland): Metaverse, Online Social Media and Networks
 - Attendees must register to the workshop by December 15, 2023: https://forms.gle/jZoGnyCemiD6s2M46
- Student Competition: we seek for innovative proposals from IEEE ComSoc students, addressing the main topics of SocMeta.
 - First Prize
 - Hongyang Du, Yinqiu Liu, Guangyuan Liu, Yao Qu (Nanyang Technological University, Singapore), «Enhancing Metaverse Social Networking via User-Centric Artificial Intelligence-Driven Eyewear»
 - Second Prize

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 Cheng Su, Xuxuan Zheng, Peiming Zhong (Guangdong University of Technology, China), Hongyang Du, Minrui Xu (Nanyang Technological University, Singapore), «Customized Avatars for Social Networking in Mobile Metaverses»

Besides, we extend the **SocMeta project** to Security and Privacy for Social Networking in Metaverse TC Innovation Project.

Main objective

- The technical objectives of the project extension is to deal with security and privacy issues in Metaverse. We enumerated some security issues such as data privacy, data integrity, interconnectivity risk, network security and authentication and access control.
- Trust in Metaverse/XR is a critical aspect as it influences how the XR is perceived, utilized, and accepted by various stakeholders.
- Blockchain technology has the potential to contribute to the security and privacy aspects of Social Metaverse, but its scalability issue needs to be addressed.

Main activities

- **Activity 1.** Establish an agenda/schedule and collect the expert contributors to edit an IEEE book on the topic of the project, or an IEEE special issue,
- Activity 2. Organization of the second 2024 international Workshop on Social Networking in Metaverse (SocMeta) focusing on security, trust and privacy topics.
- Activity 3. Organization of the second 2024 SocMeta IEEE ComSoc SNTC Student Competition. An established jury of IEEE experts will select innovative implementations and one grant will be awarded for the best.

ToSN SIG Officers include Charalampos Z. Patrikakis (Chair), Agata Gurzawska (Co-chair), and Sorin Adam Matei (Senior Advisor).

The Scope of ToSN SIG is as follows: The Trustworthiness on Social Networks interest group will foster trust-focused research on social networks. It will identify the trust vulnerabilities and opportunities in existing and future social networking technologies. It will also examine the design and usage factors that influence societal perceptions of trustworthiness of social networking platforms and of their business models. In addition, it will seek partnerships with commercial, funding, research, and regulatory bodies that may provide input and feedback on the group's activities. Moreover, it will create a framework for trustworthiness in social networks through science-societal co-creation. Particular attention will be paid to regulation, including both specific measures to foster trustworthiness and guardrails to prevent unjustified controls of social media in the name of trustworthiness.

The following results of ToSN SIG are reported.

 Collaboration with VERITY project, in order to get input from the results of the project and also exploit the possibilities for contributions by the SIG

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- Examined the possibility of collaboration with Special Interest Group on Social Internet
 of Anything (SIoA SIG) in submitting a proposal in 2024 ComSoc TC Innovation Project
 Program (decided not to proceed due to limited time but will investigate potential for
 collaboration in the future)
- Submission of a (successful) proposal in 2024 ComSoc TC Innovation Project Program
- Newsletter contribution "IS SOCIAL MEDIA ALLY OR ADVERSARY IN CHALLENGING PEOPLE'S TRUST IN SCIENCE?", contributed June 2024

In the framework of ToSN SIG, we submitted the proposal for Trustworthiness in Online Social Networks in 2024 ComSoc TC Innovation Project Program

- Funded May 2024
- The approved amount is \$5,500
- Objectives:
 - Installation and configuration of the Mastodon social network instance
 - Communication and dissemination strategy implementation (for announcing and expanding the network)
 - Conducting webinars
- Invitation to TCSN members to participate in the implementation
 - Addressed to members of the ToSN
 - Register to the Mastodon instance
 - Contribution to webinars (ideas, proposals participation)
 - Please contact Panagiotis Monachelis (pmonahelis@uniwa.gr)

The meeting was adjourned at 9:00am GMT-6.