

TC social networks meeting at IEEE ICC 2021

Date: July 06, 2021

Time: 07:00 – 09:00 am EST

Reminder to Register

- The IEEE ComSoc Technical Committee on Social Networks
- Reminder to take 1 min register in the link
 - <https://forms.gle/ANcJPD2Xfi7G2Aq2A>
 - Write your information:
 - ✓ *your name + affiliation + email*

A screenshot of a Google Forms registration page. The header features the IEEE logo and the text 'IEEE COMMUNICATIONS SOCIETY Social Networks Technical Committee'. The main content area contains the following information: 'TCSN Meeting at ICC 2021 on July 6, 2021', 'Date: July 06, 2021', 'Time: 07:00 - 09:00 am EST', and a red asterisk indicating a required field. Below this, there are three input fields labeled 'Name *', 'Affiliation *', and 'Email *', each with a 'Your answer' placeholder. At the bottom right, there is a blue 'Submit' button.

Social Networks TC Meeting Agenda

- Welcome and Introductions
- Scope of TCSN
- Approval of the GC 2020 minutes
- Invited speaker
- TCSN members and recognitions
- TCSN status
- Journal activities
- Volunteers for the SAC tracks in GCs and ICCs
- Secretary election
- Newsletter
- Special interest groups (SIGs)
- Awards & IEEE ComSoC Student Competition
- Other discussion topics
- Adjourn

Technical Committee on Social Networks (TCSN)

- 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

Approval of the IEE GC 2020 minutes

This is the 12th TC meeting for Technical Committee on Social Networks that has been established since January 1, 2016.

- IEEE ComSoc Social Networks Technical Committee
<https://sn.committees.comsoc.org>
- Approval of GC 2020 meeting minutes
- <https://sn.committees.comsoc.org/files/2021/06/TCSN-Meeting-Minutes-at-GC-2020.pdf>
 - Motion: Damla Turgut (University of Central Florida, USA)
 - Second: Burak Kantarci (University of Ottawa, Canada)
 - Voting:

IEEE ICC21 meeting: Invited Speaker

Prof. Hsu-Chun Hsiao

CSIE, Taiwan University

Privacy-preserving Contact Tracing: Theory and Practice

Short Bio:

Dr. Hsu-Chun Hsiao is an Associate Professor in the Department of Computer Science and Information Engineering, and the Graduate Institute of Networking and Multimedia at National Taiwan University. She also holds an adjunct position in the Center of Information Technology and Innovation at Academia Sinica and serves as a Section Chief in the Information Technology Office, National Taiwan University Hospital. Dr. Hsiao completed her B.S. and M.S. at National Taiwan University in 2006 and 2008, respectively, and Ph.D. at Carnegie Mellon University in 2014. Dr. Hsiao's research interests lie in the field of network and systems security, and her recent work focuses on DDoS defense, IoT security, and automated vulnerability discovery. She is a recipient of the MOST Young Scholar Fellowship, K. T. Li Young Researcher Award, ACM CyberW Early Career Award Honorable Mention, Ren Min Outstanding Young Chair Professorship, and Delta Research Excellence Award.

TCSN Members

- Any IEEE ComSoc member, who has been active in the TC activities for the past three years, can be a member of the TCSN. Also, it is 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 regular 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 may participate in TC activities as collaborators

TCSN Members Recognitions

Congratulations to our members for receiving the following awards:

- Prof. Burak Kantarci, University of Ottawa, Canada
 - ACM Senior Member
 - Johns Evans Leaders Fund by Canada Foundation for Innovation to establish the Smart Connected Vehicles Innovation Hub. in Ottawa. Vehicular Social Network will be a core component of the Smart Connected Vehicle Innovation Hub
 - the ICNC'20 Outstanding Leadership Award but this was in Feb 2020
- Prof. De-Nian Yang, Academia Sinica, Taiwan
 - 2020 ACM Distinguished Member
- Prof. Damla Turgut, University of Central Florida, USA
 - IEEE ComSoc Distinguished Lecturer, 2021-2022

Keynotes, Speeches, Panels, etc.

Prof. Neeli Prasad, SmartAvatar B.V. NL & TrustedMobi “VehicleAvatar Inc.”, USA

- Title: Cyber Security for Cyber Physical Systems; IEEE ICC 2021 Workshop on Sensing-as-a-service for Industrial Cyber Physical Systems (I-CPSAAS), June 18, 2021.
- Title: How to bridge the gender gap in ICT? Equality or Equity?; N2Women panel, June 17, 2021.

Prof. Patrikakis Charalampos, University of West Attica, Greece

- Title: Fighting Misinformation on Social Network; IEEE GLOBECOM 2020 Industry Forum
- Title: Human Aspects of Misinformation Online; ACM CHI workshop

TCSN Status

- Mail list
 - Currently: **938** members subscribed through mailing list
- Website:
 - <https://listserv.ieee.org/cgi-bin/wa?SUBED1=IEEESTC&A=1>
- Interaction with members by means of:
 - Mailing list IEEESTC@LISTSERV.IEEE.ORG
- To subscribe
 - <https://listserv.ieee.org/cgi-bin/wa?SUBED1=IEEESTC&A=1>
- Social media



@IEEEComSoc_TCSN



IEEE ComSoc Social Networks
Technical Committee



IEEE ComSoc Social Networks
Technical Committee

Journal Activities

- Special Issues
 - IEEE ACCESS (2021)
 - ✓ Collaborative Intelligence for Internet of Vehicles
 - ✓ Guest editors: Celimuge Wu, Soufiene Djahel, Damla Turgut, Sidi-Mohammed Senouci, Lei Zhong
 - ✓ Submission deadline: July 31, 2021
 - 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

Journal Activities

- Special Issues
 - IEEE IT Professional (2021)
 - ✓ Information Hygiene and the Fight against the Misinformation Infodemic
 - ✓ Guest editors: George Loukas, Stephen J. Andriole, San Murugesan
 - ✓ Publication: Mar 2022
 - IEEE Trans. on Computational Social Systems (2020)
 - ✓ Collaborative Edge Computing for Social Internet of Things Systems
 - ✓ Guest editors: Zhaolong Ning, MengChu Zhou, Yong Yuan, Edith C. H. Ngai, and Ricky Y. K. Kwok
 - ✓ Publication: June 2021
 - IEEE Trans. on Computational Social Systems (2020)
 - ✓ Computational Social Systems for COVID-19 Emergency Management and Beyonds
 - ✓ Guest editors: Neeli Prasad, De-Nian Yang, Damla Turgut and others
 - ✓ Publication: June 2020

Journal Activities

- Special Issues
 - 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, 4:00 pm US Eastern time
 - 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
 - ✓ Computing and Networking for Cyber-Physical-Social Systems
 - Guest editors: Hai Jiang (Lead), A. B. M. Shawkat Ali, Beniamino Di Martino, and Bernady O. Apduhan
 - Final Accepted Manuscript Due: 15 July 2021

Volunteers for Future Conferences

- ICC/GLOBECOM
 - ICC 2020 Dublin
 - ✓ Rep: Neeli Prasad
 - ✓ 19 submissions, 8 accepted papers (acceptance ration of ~39%)
 - GC 2020 Taipei
 - ✓ Rep: Eirini Eleni Tsiropoulou
 - ✓ 26 submissions (among the top numbers in the SACs), 10 accepted papers (acceptance ration of ~38%)
 - ICC 2021 Montreal
 - ✓ Rep: Damla Turgut
 - ✓ 22 submissions (acceptance ration of ~40%))
 - GC 2021 Madrid
 - ✓ Rep: De-Nian Yang
 - ✓ 54 submissions (review process ongoing)

Volunteers for Future Conferences

- ICC/GLOBECOM
 - ICC 2022 Seoul
 - ✓ Rep: : Abderrahim Benslimane
 - GC 2022 Rio de Janeiro
 - ✓ Rep: Neeli Prasad
 - ICC 2023 Rome
 - ✓ Rep: De-Nian Yang
 - GC 2023 Kaula Lumpur
 - ✓ Rep: Neeraj Kumar
 - ICC 2024 Denver
 - ✓ Rep: Eirini Eleni Tsiropoulou
 - GC 2024
 - ✓ Rep: Please volunteer via submitting your short bio to the TCSN committee

Volunteers for Future Conferences

- Goal: increase the number of submissions
 - Update topics in CFP
 - Advertise the CFP to the 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 Needed

- Information Officers: (volunteers needed and please contact neeliprasad@gmail.com with subject IEEE ComSoc TCSN volunteers)
 - Web: De-Nian Yang (Academia Sinica)
 - Newsletters: Anna Maria Vegni
 - Membership development: Eirini & Burak
 - ✓ Will continue to work on increasing the membership
 - ✓ We have 900+ members
 - Awards Committee
 - ✓ We need to work on this (To do item)
 - ✓ We need to keep diversity in mind
 - Industry liaison: Raju Venkataramana
 - ✓ Industry and other related projects
 - Liaison to ComSoc Standardization Board: Charalampos Patrikakis
 - ✓ 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 Sidney)
 - Marketing: Neeli Prasad and De-Nian Yang

TCSN Secretary Election

- Nominations and Elections Committee (announced to all TCSN members via e-mail on 7 December 2020)
- The mandate of the current Chair of TCSN is ending in 2021
- According to the new P&Ps of COMSOC, Damla Turgut and De-Nian Yang will be elevated to Chair and Vice-Chair, respectively. Therefore, an election for the secretary position will be held.
- As per the new P&Ps, the candidates must be COMSOC members and active members of TCSN (**i.e., attendees of at least 3 TCSN meetings in the past 3 years with realistic contributions to TCSN activities**).

TCSN Secretary Election

- A Nomination and Election Subcommittee (N&E) is formed as follows to verify the active status and willingness to serve for the candidates for the election:
 - Kwang-Cheng Chen (Chair) (University of South Florida, USA)
 - Neeli Prasad (SmartAvatar, Netherlands)
 - De-Nian Yang (Academia Sinica, Taiwan)
- Candidates for Secretary Position (announced to all TCSN members via e-mail on 28 November 2020)
 - Burak Kantarci, University of Ottawa
 - Abderrahim Benslimane, University of Avignon
 - Sudip Misra, Indian Institute of Technology
- E-Ballot took place (June 30 – July 5 2021). Results:
 - **Burak Kantarci: 4**
 - Abderrahim Benslimane: 3
 - Sudip Misra: 3

Newsletters

- Newsletters
 - Twice a year (ICC and Globecom)
- Editors:
 - Issue no. 1: Damla Turgut
 - Issue no. 2: Neeli Prasad
 - Issue no. 3: De-Nian and Damla
 - Issue no. 4: Valeria Loscri and Anna Maria Vegni
 - Issue no. 5: De-Nian, Neeli, and Damla
 - Issue no. 6: De-Nian, Neeli and Damla
 - Issue no. 7: De-Nian, Neeli and Damla

Special Interest Groups

- Call for Interest in SIG creation
 - If interested to create other relevant SIG, please contact the TCSN Officers
 - ✓ Scope
 - ✓ Activities
 - ✓ Liaison with other TCs
 - TCSN support on SIG activities
 - ✓ Technically (co-)sponsor workshops and conferences
 - ✓ Promote seminars/talks
 - ✓ Organize special issues in journals

Special Interest Groups

- Call for Interest in Liaison with other TC
 - If interested to serve as liaison with other TCs or other ETIs, please contact the TCSN Officers
 - Objective of liaison
 - ✓ Promote joint activities of interest
 - ✓ Coordinate initiatives (special issues/tracks in conferences/ workshops)
 - ✓ Organize special issue in journals

<https://www.comsoc.org/about/committees/technical-committees>

Award(s)

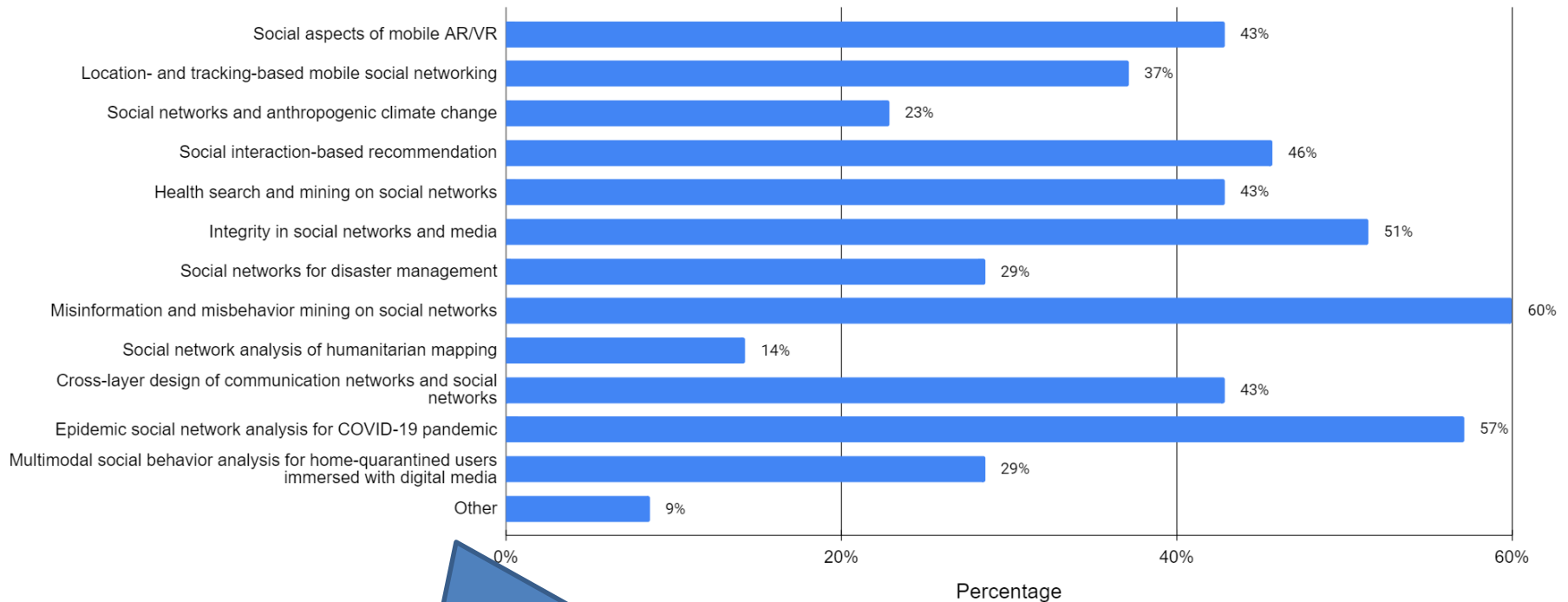
- New awards might need approval by the ComSoc Award Committee
- We need to follow P&P to establish any award
 - Follow the constitution of the procedure, which needs approval by Technical and Education Committee
 - Need to set up the ad-hoc committee to change the procedure
 - New policy has been set

Survey: Promising future technological directions of interest to TCSN

- Social aspects of mobile AR/VR
- Location- and tracking-based mobile social networking
- Social networks and anthropogenic climate change
- Social interaction-based recommendation
- Health search and mining on social networks
- Integrity in social networks and media
- Social networks for disaster management
- Misinformation and misbehavior mining on social networks
- Social network analysis of humanitarian mapping
- Cross-layer design of communication networks and social networks
- Epidemic social network analysis for COVID-19 pandemic
- Multimodal social behavior analysis for home-quarantined users immersed with digital media
- Other: security and privacy in social networks, social sensing

Survey: Promising future technological directions of interest to TCSN

What are the promising future technological directions of interest to TCSN?



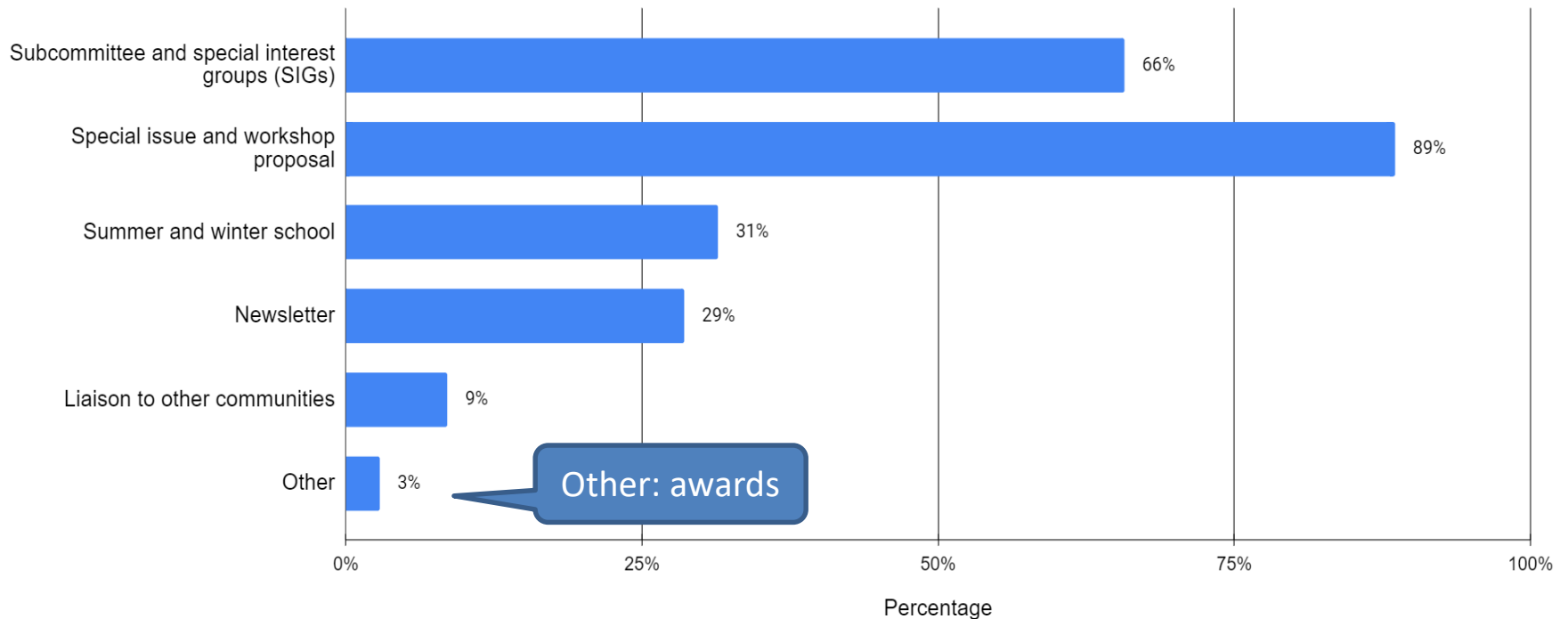
Other:

- (1) Graphical and latent structures of social networks
- (2) Decentralization of social networks
- (3) Security and privacy in social networks, social sensing

Survey:

Better TC plans to pursue those directions

What are the better TC plans to pursue those directions?



Other Discussion Topics

- Online seminar
- More activities
 - Please put activity announcements on committee web
 - COVID-19 related SI, Chapters, Books, etc.
 - DLs
 - Summer/winter school?
 - ✓ Funding issue
 - ✓ Contact issue
 - ✓ TC can endorse technical sponsorship of international conferences organized by TC members

Other Discussion Topics

- More activities (continued)
 - Workshops etc. at ICC/GC/INFOCOM/CCNC for security/privacy, big data, etc.
 - SI for IEEE journals
 - TC can endorse technical sponsorship of international conferences organized by TC members

TCSN Officers

- Chair: Neeli Prasad, neeliprasad@gmail.com
- Vice-Chair: Damla Turgut, Damla.Turgut@ucf.edu
- Secretary: De-Nian Yang, dnyang@iis.sinica.edu.tw

Next Meeting

- Next virtual TCSN meeting at GC21, Madrid.
See you then!



IEEE Global Communications Conference
7-11 December 2021 // Madrid, Spain // Hybrid: In-Person and Virtual Conference
Connecting Cultures around the Globe



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* Required

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- Name *
- Affiliation *
- Email *

Each field has a placeholder text 'Your answer' and a text input line. At the bottom right of the form is a blue 'Submit' button.

Motion: Damla Turgut (University of Central Florida, USA)

Second: Eirini Eleni Tsiropoulou (University of New Mexico, USA)

Voting:

Thanks for attending and see you in next TCSN meeting at GC 2021!

**ADJOURN &
THANK YOUR ATTENDANCE**