

IEEE SPS SPCOM-TC Meeting post ICASSP 2020

Online meeting in Zoom

May 18, 2020

16:00-17:30 (CEST)

Updates to the TC member list

- Newly elected members
 - Luca Sanguinetti, Kaibin Huang, Tsung-Hui Chang, Lingjia Liu, Ya-Feng Liu, Jun Zhang, Itsik Bergel, Shaofeng Zou, Rodrigo C. de Lamare
- New vice-chair
 - Osvaldo Simeone
- Members re-elected for a second term
 - Emil Björnsson, Christoph Studer, Mingyi Hong, Laura Cottatellucci, Tareq Al-Naffouri, Tony Quek
- Exiting members
 - Biao Chen, Philippe Ciblat, Bruno Clerckx Feifei Gao, Shi Jin, Chandra Murthy, Vasanth Raghavan, Mathini Sellathurai
- Former chair retired from TC
 - Wei Yu

Agenda

- Call to order; Welcome
- Approval of the agenda (Vote)
- Proposal for SPAWC 2022
 - Shanghai, China (GC: Zhi Tian, Xin Wang, G.B. Giannakis; TPC: **Geert Leus**, Shengli Zhou)
- Proposal for SPAWC 2022
 - Oulu, Finland (GC: **Markku Juntti**; TPC: Antti Tölli, Mikko Valkama)
- Update for SPAWC 2020
 - Georgia Tech., USA (GC: Geoffrey Ye Li , Xiaoli Ma; TPC: **Zhengdao Wang**, Jitendra K. Tugnait, Justin Coon)
- Update for SPAWC 2021
 - Lucca, Italy., USA (GC: **Luca Sanguinetti**; TPC: Emil Björnson, Osvaldo Simeone)
- Chair's report
- Discussions

SPAWC 2022 proposal

Shanghai, China

SPAWC 2022 proposal

Oulu, Finland

SPAWC 2020 update

Virtual (Georgia Tech., USA)

SPAWC 2021 proposal

Lucca, Italy

Chair's report and information

TC membership distribution

- 30 Technical Committee Members, including the chairs
 - 29 academia and **1 industry**
 - 7 female and 23 male
 - 3 IEEE Members; 21 Senior IEEE Members; 6 Fellows
 - 7 US; 2 Canada; 13 Africa, Europe, Middle East; 1 Latin America; 7 Asia and Pacific
- Think about how we can represent and lead in our society
- How can we better utilize our (228) affiliate members?

Chair's Report – ICASSP Statistics

ICASSP 2014 (Florence)	205 accepted out of 387 submitted + 5 SPL papers	11.6% of ICASSP
ICASSP 2015 (Brisbane)	75 accepted out of 153 submitted + 14 SPL papers	6.8% of ICASSP
ICASSP 2016 (Shanghai)	116 accepted out of 240 submitted + 9 SPL papers	9.0% of ICASSP
ICASSP 2017 (New Orleans)	72 accepted out of 146 submitted + 4 SPL papers	5.8% of ICASSP
ICASSP 2018 (Calgary)	80 accepted out of 171 submitted + 4 SPL papers	6.2% of ICASSP
ICASSP 2019 (Brighton)	71 accepted out of 153 submitted + 4 SPL papers	4.1% of ICASSP
ICASSP 2020 (Barcelona)	66 accepted out of 141 submitted + 5 SPL papers	
ICASSP 2020 (Toronto)	To be submitted...	

Chair's Report – SPAWC Statistics

SPAWC 2012 (Cesme, Turkey)	119 accepted out of 171 submitted	124 attendees
SPAWC 2013 (Darmstadt, Germany)	158 accepted out of 237 submitted	184 attendees
SPAWC 2014 (Toronto, Canada)	102 accepted out of 121 submitted	132 attendees
SPAWC 2015 (Stockholm, Sweden)	140 accepted out of 207 submitted	178 attendees
SPAWC 2016 (Edinburgh, UK)	173 accepted out of 260 submitted	210 attendees
SPAWC 2017 (Sapporo, Japan)	178 accepted out of 256 submitted	268 attendees
SPAWC 2018 (Kalamata, Greece)	152* accepted out of 281 submitted	250 attendees
SPAWC 2019 (Cannes, France)	198 accepted out of 347 submitted	
SPAWC 2020 (Atlanta, US)	139 accepted out or 189 submitted	

- Financial results:
 - 2016: Surplus of £14K out of £67K expenses (18% surplus)
 - 2017: Surplus of \$24K out of \$129K expenses (19% surplus)
 - 2018: Surplus of \$25K out of \$95K expences (26% surplus)
 - 2019: Surplus of \$17K out of \$84K expences (19% surplus)

Chair's Report – Award Nominations

- IEEE SPS Society Award: Georgios B. Giannakis (successful)
- IEEE SPS Technical Achievement Award: Zhi-Quan (Tom) Luo (not successful)
- IEEE SPS Best Paper Award:
 - *E. Nachmani, E. Marciano, L. Lugosch, W. J. Gross, D. Burshtein and Y. Be'ery, "Deep Learning Methods for Improved Decoding of Linear Codes," in IEEE Journal of Selected Topics in Signal Processing, vol. 12, no. 1, pp. 119-131, Feb. 2018 (not successful)*
- IEEE SPS Young Author Best Paper Award:
 - *Sebastian Dörner and Sebastian Cammerer, for the paper co-authored with Jakob Hoydis and Stephan ten Brink, for "Deep Learning Based Communication Over the Air", IEEE Journal of Selected Topics in Signal Processing, Volume 12, No. 1, February 2018. (successful)*
- Donald G. Fink Overview Paper Award:
 - *Robert W. Heath, Nuria González-Prelcic, Sundeep Rangan, Wonil Roh, and Akbar M. Sayeed "An Overview of Signal Processing Techniques for Millimeter Wave MIMO Systems" IEEE Journal of Selected Topics in Signal Processing, No. 3, Vol. 10, April 2016. (not successful)*
- Sustained Impact Award:
 - *S. A. Vorobyov, A. B. Gershman and Zhi-Quan Luo, "Robust adaptive beamforming using worst-case performance optimization: a solution to the signal mismatch problem," in IEEE Transactions on Signal Processing, vol. 51, no. 2, pp. 313-324, Feb. 2003 (not successful)*
- IEEE Marconi Prize Paper Award in Wireless Communications:
 - *Y. Zeng and R. Zhang, "Energy-Efficient UAV Communication With Trajectory Optimization," in IEEE Transactions on Wireless Communications, vol. 16, no. 6, pp. 3747-3760, June 2017. (unknown)*

Chair's Report –Award Winners

- 2019 IEEE SPS Best Column Award (independently nominated by TC members)
 - *Emil Björnson, Mats Bengtsson, and Björn Ottersten for "Optimal Multiuser Transmit Beamforming: A Difficult Problem with a Simple Solution Structure", IEEE Signal Processing Magazine, Volume. 31, No. 4, July 2014.*
- 2019 IEEE Marconi Prize Paper Award in Wireless Communications:
 - *M. Tao, E. Chen, H. Zhou and W. Yu, "Content-Centric Sparse Multicast Beamforming for Cache-Enabled Cloud RAN," in IEEE Transactions on Wireless Communications, vol. 15, no. 9, pp. 6118-6131, Sept. 2016.*

Upcoming schedule for 2020-2021

- SPAWC 2020 - May 26-29
- SPCOM TC review – May 26
 - Joakim Jaldén (chair), Osvaldo Simeone
- Distinguished Industry Lecturer and Distinguished Lecturer – May 30
- Best paper awards – September 1
 - Handled by awards sub-committee
 - Process starts now (after ICASSP and SPAWC) – **expect scan reviews soon**
- Membership elections – Mid November (to SPS)
 - Takes place over September and October (**please nominate**)
- ICASSP reviews – November, December
- SPAWC reviews – Spring 2021

Paper award process

- Scan review work starts post ICASSP and SPAWC
 - Review around 10 papers to find candidates
 - Awards committee creates initial slate of candidate papers
- Award level review during summer
 - Voting in August
- Take some time to browse - [signalprocessingsociety.org/get-involved/awards-submit-award-nomination](https://www.signalprocessingsociety.org/get-involved/awards-submit-award-nomination)
 - TC can nominate for all awards, and suggestions are appreciated

Membership election

- 7 open positions in 2020 election
 - At most 3 sitting members can be re-elected
- Members ending their first term
 - Elisabeth De Carvalho, Lutz Lampe, Dirk Slock, Ali Tajer, Meixia Tao
- Members ending their second term
 - Yindi Jing, Wing-Kin (Ken) Ma
- TC chair (Joakim) will write (re-)nomination letters at request

Formation of sub-committees

- Nominations and elections subcommittee:
 - Joakim Jalden (chair), Osvaldo Simeone, 1-2 more members
- Awards subcommittee:
 - Osvaldo Simeone (chair), Joakim Jaldén, Waheed Bawja, Luca Sanguinetti
- Marconi award subcommittee (February 2021 deadline):
 - 2 members (with COMSOC interests)
- Education subcommittee:
 - 2-3 members (willing to provide ICASSP SP-CUP TC-proposal)
- Newsletter subcommittee:
 - 2 members (willing to start up some new activities)
- Industry/government subcommittee:
 - 2 people (willing to recruit industry representative)
- Geographical representatives:
 - Canada/US/Americas; Europe; Asia/Pacific

From the technical directions board (TDB)

- Work on updating TC membership structure
 - Working group led by Tulay Adali
 - Better engagement of affiliate members
- Social media outreach
 - The role of the TC in society
 - 2 videos were produced ahead of ICASSP 2019
 - Signal Processing for 5G - www.youtube.com/watch?v=uca6X4Ykcmg
 - Signal Processing for Wi-Fi - www.youtube.com/watch?v=V9GwqFoN2WI
- Data and Challenges Initiative (with funding and structure)
 - How can we contribute? Ideas? (Learn from SPAWC 2021?)
 - Contact Patrick Naylor for more information
- Work on Unified EDICS
 - Same for SPS Publications and ICASSP
 - Worked well except for [CIT-PHYS] Physical Layer Security
- Upcoming discussion on TC best practices

Discussions