

IEEE SPS SPCOM-TC Meeting at ICASSP 2019

Brighton, UK

May 16, 2019

11:30-12:00

Agenda

- Call to order; Welcome from the chair
- Approval of the agenda
- Chair's report
- Update for SPAWC 2019
 - Cannes, France (David Gesbert, Florian Kaltenberger, Laura Cottatelucci)
- Update for SPAWC 2020
 - Georgia Tech., USA (Zhengdao Wang, Xiaoli Ma, and Geoffrey Ye Li)
- Proposal for SPAWC 2021
 - Lucca, Italy (Luca Sanguinetti, Emil Björnson, Osvaldo Simeone)
- Proposal for SPAWC 2021
 - Oulu, Finland (Markku Juntti , Antti Tölli, Mikko Valkama)
- Information and discussion items
 - Autonomous System Program
 - Election of new members in 2019
 - Information from Technical Directions Board Meeting

Approval of Agenda (vote)

Chair's Report - Membership

- The following five members had their terms ending in 2018:
 - Waheed Bawjaa, Min Dong, Markku Juntii, Elefterios Karipidis, Wei Zhang
- Two stood for re-election:
 - [Waheed Bawjaa](#), [Markku Juntti](#). Both were elected for another 3-year term (2019-2021)
- The following three new members were elected for a 3-year term (2019-2021):
 - [Danijela Cabric](#), [Yonina Eldar](#), [Ana Pérez-Neira](#)
 - 12 excellent candidates stood for election
- **Diversity metric:**
 - 8 female members (27%), 1 industry member.
 - 11 North America (3 in Canada), 10 Europe, 2 Middle East, 7 Asia Pacific

Chair's Report – Suggested subcommittees

- Nominations and elections subcommittee:
 - Joakim Jalden (chair), Yonina Eldar?, Biao Chen?
- Awards subcommittee:
 - Wei Yu (chair), Joakim Jaldén, Emil Björnsson, Meixia Tao
- Marconi award subcommittee:
 - Yindi Jing (chair), Tareq Al-Naffouri, ?
- Industry/government subcommittee:
 - Raghavan Vasanthan (chair), Markku Juntti
- Newsletter subcommittee:
 - Chandra Murthy (chair), and Waheed U. Bajwa (IEEE SPS visibility representative)
- Education subcommittee:
 - Christopher Studer (chair), Daniela Cabric
- Geographical representatives:
 - Lutz Lampe (Canada/US/Americas)?, Phillipe Ciblat (Europe)?, Tony Quek (AsiaPacific)?

TC Representations on IEEE Boards, I

- IEEE SPS Board of Govenors ([A. Pérez-Neira](#))
- IEEE SPS Technical Directions board ([J. Jalden](#))
- IEEE SPS Awards Board (E. G. Larsson)
- Fellow Evaluation Committee (Z.-Q. Luo, U. Mitra)
- Long Range Planning and Implementation Committee ([A. Pérez-Neira](#))
- Council on Radio Frequency Identification ([Feifei Gao](#))
- Smart Grid Initiative Steering Committee ([A. Tajer](#))

TC Representations on IEEE Boards, II

- Steering committee of IEEE Trans. Wireless Comm. (E. G. Larsson)
- Steering committee of IEEE Trans. Mobile Computing (T. Davidson, Min Dong)
- Steering committee for IEEE Wireless Comm. Letters (R. Zhang, D. Love)
- Editor-in-Chief of IEEE Wireless Comm. Letters (W. Zhang)
- TSIPN Editorial Board ([W. Bajwa](#), [D. Cabric](#), [P. Ciblat](#))
- SPL Senior Area Chairs ([W. Bajwa](#), [Y. Jing](#))

Chair's Report – Award Nominations

- IEEE SPS Society Award: [Yonina Eldar](#) (**not successful**)
- IEEE SPS Technical Achievement Award: [Geoffrey Ye Li](#) (**not successful**)
- IEEE SPS Industrial Leader Award: [John Cioffi](#) (**not successful**)
- IEEE SPS Best Paper Award: (**no nomination**)
- IEEE SPS Young Author Best Paper Award:
 - [C. Liang \(Young\), J. Hu, X. Ma and B. Bai](#), "A New Class of Multiple-Rate Codes Based on Block Markov Superposition Transmission," in *IEEE Transactions on Signal Processing*, vol. 63, no. 16, pp. 4236-4244, Aug.15, 2015. (**not successful**)
- Donald G. Fink Overview Paper Award:
 - [M. Sanjeev Arulampalam, Simon Maskell, Neil Gordon, and Tim Clapp](#), "A Tutorial on Particle Filters for Online Nonlinear/Non-Gaussian Bayesian Tracking", *IEEE Transactions on Signal Processing*, Volume 50, Number 2, February 2002. (**successful**)
- Sustained Impact Award:
 - [Q. H. Spencer, A. L. Swindlehurst and M. Haardt](#), "Zero-forcing methods for downlink spatial multiplexing in multiuser MIMO channels," in *IEEE Transactions on Signal Processing*, vol. 52, no. 2, pp. 461-471, Feb. 2004. (**not successful**)
- 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. (**successful**)

Chair's Report –Award Winners

- SPS Best Paper Award (Top ranked by TC):
 - *S. Park, O. Simeone, O. Sahin and S. Shamai, "Joint Precoding and Multivariate Backhaul Compression for the Downlink of Cloud Radio Access Networks," in IEEE Transactions on Signal Processing, vol. 61, no. 22, pp. 5646-5658, Nov.15, 2013.*
- SPS Best Paper Award (Identified in TC scan review):
 - *K. Wang, A. M. So, T. Chang, W.-K. Ma and C. Chi, "Outage Constrained Robust Transmit Optimization for Multiuser MISO Downlinks: Tractable Approximations by Conic Optimization," in IEEE Transactions on Signal Processing, vol. 62, no. 21, pp. 5690-5705, Nov.1, 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.*
- 2018 IEEE Marconi Prize Paper Award in Wireless Communications:
 - *Emil Björnson, Luca Sanguinetti, Jakob Hoydis, and Mérouane Debbah "Optimal Design of Energy-Efficient Multi-User MIMO Systems: Is Massive MIMO the Answer?," IEEE Transactions on Wireless Communications, Vol. 14, No. 6, pp. 3059-3075, June 2015.*

Chair's Report – ICASSP Statistics

ICASSP 2013 (Vancouver)	187 accepted out of 391 submitted + 12 SPL papers	11.0% of ICASSP
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

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)		

- Financial results:
 - 2015: Surplus of \$27K out of \$68K expenses (28% surplus)
 - 2016: Surplus of £14K out of £67K expenses (17.5% surplus)
 - 2017: Surplus of \$24K out of \$129K expenses (18.8% surplus)
 - 2018: Surplus of \$25K out of \$95K expenses (26% surplus)

Chair's Report – Tasks Ahead (TODO)

- May 31, 2019:
 - Nominations for Distinguished Lecturers (Responsibility: TC chair, Awards subcommittee)
- September 1, 2019:
 - Nominations for Paper Awards: BPA, YABPA, MBPA, LBPA, OPA, SIPA (Responsibility: TC Past-Chair, Awards subcommittee)
 - Nominations for Society Award, Technical Achievement Award (Responsibility: TC Chair, Awards subcommittee)
- November 15, 2019:
 - Membership election completed (Responsibility: Elections and nominations subcommittee)
 - Nominations by September 15, 2019 in “generic TC elections guidelines”
- November – December 2019:
 - ICASSP Paper Reviews and Decisions (Responsibility: TC-chair)
 - Paper acceptance communicated to authors January 24, 2020
- February 15, 2020:
 - Nominations for the Marconi award (Responsibility: Marconi subcommittee)
- Early spring 2020
 - SPAWC 2020 reviews

Update for SPAWC 2019 (July 2-5)

- Last day to register at the advance rate is TODAY, May 16!

**20TH IEEE
INTERNATIONAL
WORKSHOP ON
SIGNAL
PROCESSING
ADVANCES IN
WIRELESS
COMMUNICATIONS**

**2-5 JULY 2019
CANNES, FRANCE**



IEEE

*IEEE
Signal Processing Society*

Update for SPAWC 2020 at
Georgia Institute of Technology
Atlanta, USA

Geoffrey (Ye) Li, Zhengdao Wang, Xiaoli Ma

SPAWC 2021 proposal for

Lucca, Italy

Luca Sanguinetti, Emil Björnson, Osvaldo Simeone

SPAWC 2021 proposal for

Oulu, Finland

Markku Juntti , Antti Tölli, Mikko Valkama

IEEE Signal Processing Society (SPS) ASI

- New Autonomous Systems Initiative (ASI)
- “To become an ASI Member, you must be an IEEE SPS member and be nominated by a SPS Technical Committee or Special Interest Group.”
- How do we handle TC nominations?
 - Pending request from Jinho Choi
- Decided though an email based endorsement vote?

Elections process 2019

- 17 TC seats will be up for reelection (incl. new vice-chair)
 - 7 members have already served their second term
- A minimum of 7 new members are needed
 - Compared with 3 in 2018
- 12 candidates stood for election in 2018 (incl. 2 past members)
- We need to be extra good at nominating new members!
 - Consider gender diversity, geographical diversity, industry, and young professionals (presumed high level of contribution)

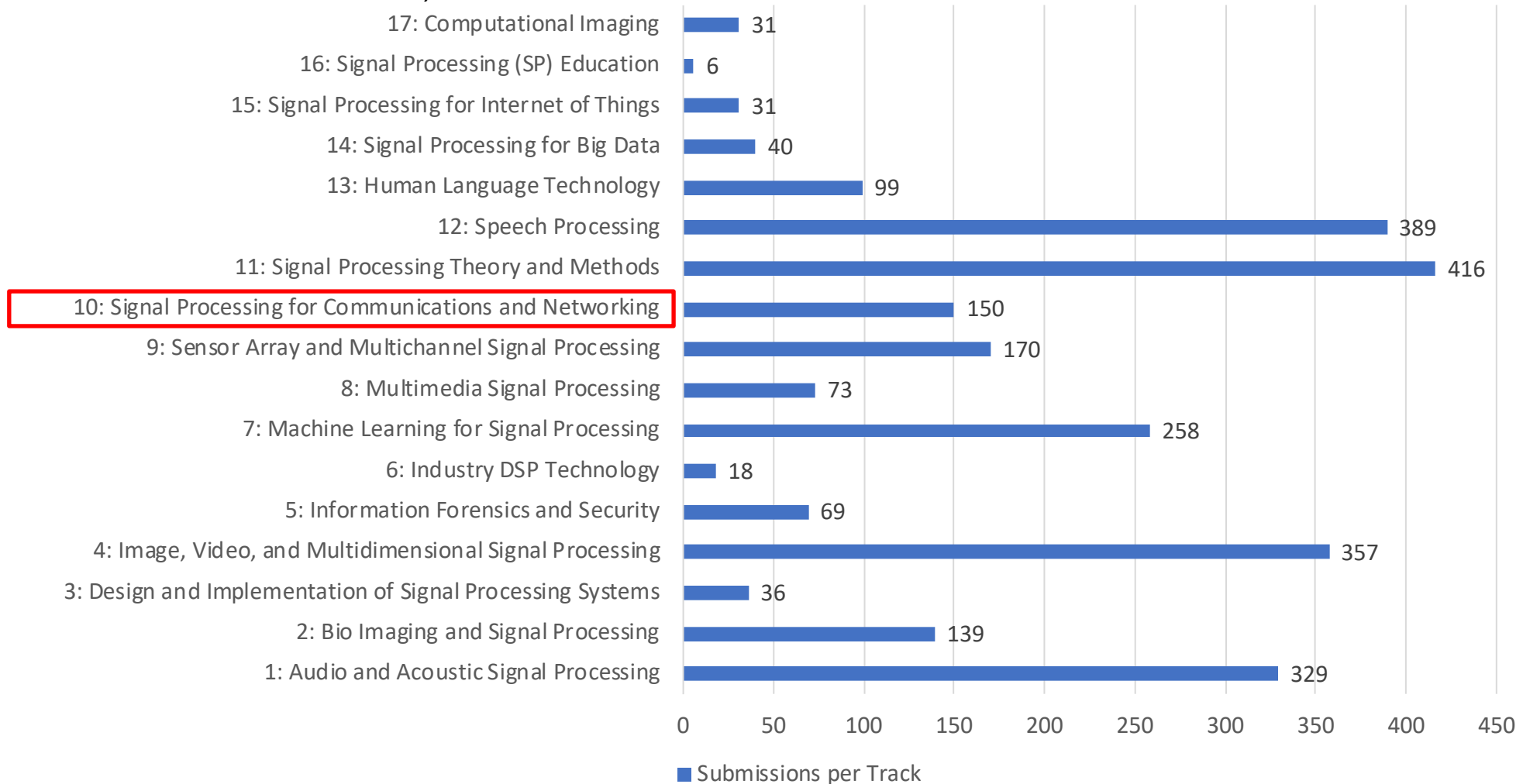
Info. from Technical Directions Board Meeting

- Work on Unified EDICS
 - Joakim (TC Chair) has “claimed” a (too long) set for TC
 - Same for SPS Publications and ICASSP
- IEEE Fund for Signal Processing and Young Professionals
 - Could be used for travel scholarships and best student paper awards
 - SPS can match funding provided by external partner
- SPS Challenges and Data Collection Initiative
 - Allows for new type of challenge overview paper in SPS journals
 - Could SPCOM engage in challenges?
 - Is a new subcommittee appropriate for this?

Appendix – ICASSP Statistics

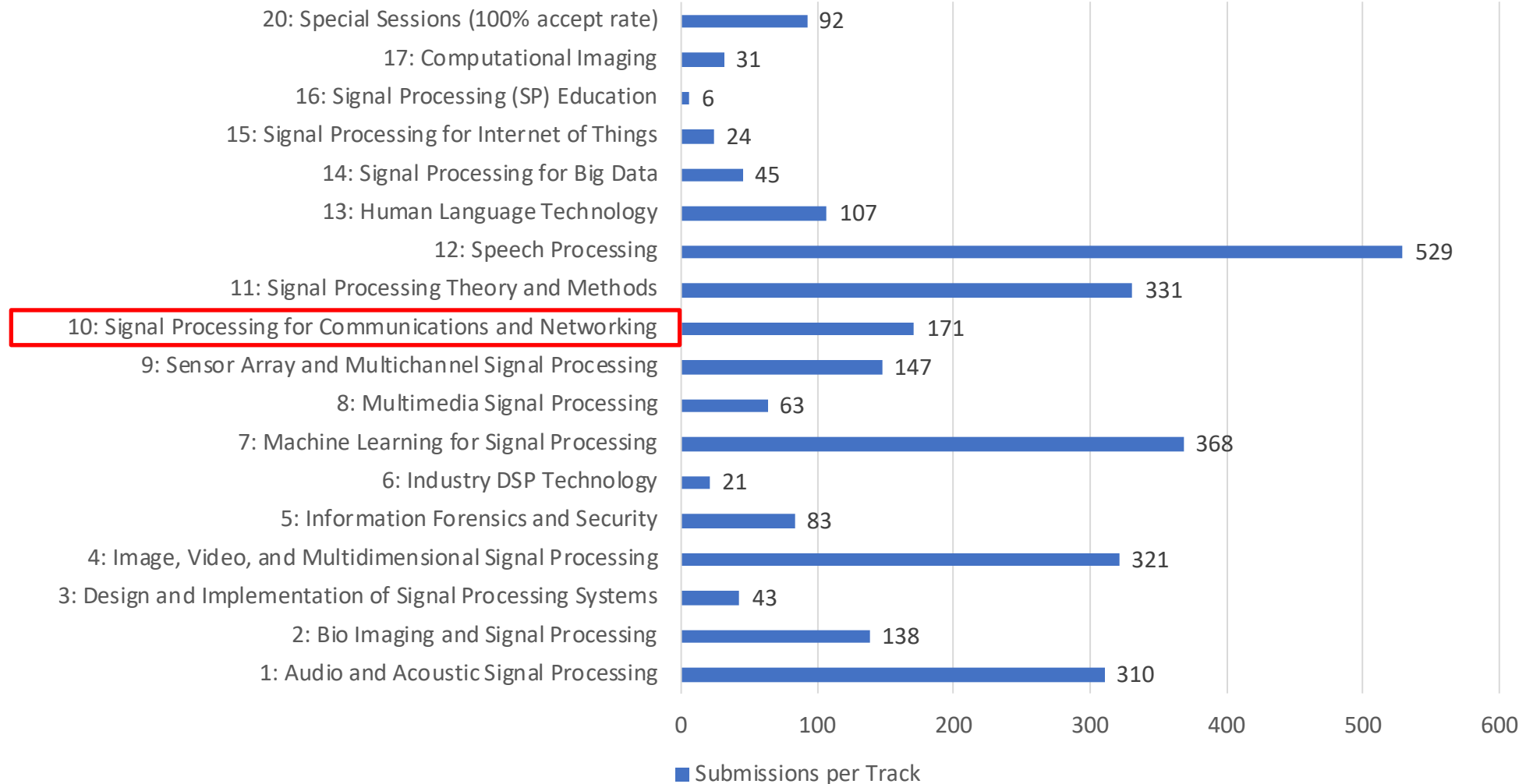
ICASSP 2017 Submissions (data from TPC Chairs)

Submissions per Track



ICASSP 2018 Submissions (data from TPC Chairs)

Submissions per Track



ICASSP 2019 Submissions (data from Tulay Adali)

Submissions per Track including SPL and TSP presentations

