

IEEE SPS SPCOM-TC Meeting at ICASSP 2017

Hilton New Orleans, Camp Room, U.S.A.

March 6, 2017

5pm-6:30pm

Agenda

- Call to order. Welcome from the chair (Wei Yu)
- Approval of the agenda
- Approval of minutes from the meeting at ICASSP 2016 (encl. 1, vote)
- Chair's report (encl. 2, for information)
- Update from SPAWC 2017 (Wei Yu)
- Update from SPAWC 2018 (Athina Petropulu)
- Policies and procedures revision (encl. 3, vote)
- Discussion of Potential Proposals for SPAWC 2019 (encl. 4, 5, 6, for info.)
 - Georgia Tech. (Geoffrey Ye Li)
 - Indian Institute of Science (Bhaskar Rao)
 - EUROCOM (Laura Cottatellucci)
- Electronic voting, SP Video, etc (Erik Larsson)

Approval of Agenda (vote)

Approval of Minutes of the TC Meeting
from ICASSP 2016 (vote)

Chair's Report - Membership

- At the end of 2016, the following 10 members retired from service:
 - Chong-Yung Chi, David Love, Matthew McKay, Ahmed Sadek, Milica Stojanovic, Weifeng Su, Cihan Tepedelenlioglu, Wolfgang Utschick, Sergiy Vorobyov, Pengfei Xia
- In 2017 the following 10 new elected members started their service:
 - Tony Quek, Bruno Clerckx, Emil Björnson, Christoph Studer, Laura Cottatellucci, Osvaldo Simeone, Mingyi Hong, Vasanth Raghavan, Byonghyo Shim, Tareq Al-Naffouri.
- Following members were re-elected for a second three-year term:
 - Biao Chen, Chandra Murthy, Mathini Sellathurai, Philippe Ciblat, Shi Jin, Feifei Gao.
- Diversity metric:
 - 5 female members, 2 industry members.
 - 12 North America, 9 Europe, 1 Middle East, 8 Asia Pacific

Chair's Report - Subcommittees

- Nominations and elections subcommittee:
 - Joakim Jalden (chair), Min Dong, Wei Zhang
- Awards subcommittee:
 - Erik Larsson (chair), Wei Yu, Biao Chen, Urbashi Mitra
- Marconi award subcommittee:
 - Rui Zhang (chair), Bruno Clerckx, Yindi Jing, Shi Jin
- Industry/government subcommittee:
 - Eleftherios Karipidis (chair), Raghavan Vasanth
- Newsletter subcommittee:
 - Chandra Murthy (chair), and Waheed U. Bajwa (IEEE SPS visibility representative)
- Education subcommittee:
 - Markku Juntti (chair), Christopher Studer, Emil Björnson
- Geographical representatives:
 - Michael Rabbat (Canada), Phillipe Ciblat (Europe), Tony Quek (AsiaPacific), Christoph Studer (USA)

TC Representations on IEEE Boards

- IEEE SPS Technical Directions board ([W. Yu](#))
- IEEE SPS Awards Board ([U. Mitra and E. G. Larsson](#))
- Steering committee of IEEE Trans. Wireless Comm. ([U. Mitra](#))
- Editor-in-Chief of IEEE Wireless Comm. Letters ([W. Zhang](#))

Chair's Report – Award Winners

- **IEEE SIGNAL PROCESSING SOCIETY TECHNICAL ACHIEVEMENT AWARD**

- **Bhaskar D. Rao**, "for fundamental contributions to array processing and sparsity-based signal processing."

- **IEEE SIGNAL PROCESSING SOCIETY BEST PAPER AWARD**

- Chin Keong Ho and **Rui Zhang**, for "[Optimal Energy Allocation for Wireless Communications With Energy Harvesting Constraints](#)", *IEEE Transactions on Signal Processing*, Volume 60, No. 9, Sept. 2012.

- **IEEE SIGNAL PROCESSING LETTERS BEST PAPER AWARD**

- Ye Yang, Qiang Li, **Wing-Kin Ma**, Jianhua Ge and P. C. Ching, for "[Cooperative Secure Beamforming for AF Relay Networks With Multiple](#)", *IEEE Signal Processing Letters*, Volume 20, No. 1, January 2013.

- **IEEE FELLOW Class of 2016 among current TC members:**

- **Wing-Kin Ma, Rui Zhang**

Chair's Report – Award Nominations

- 2016 IEEE SPS Best Paper Award
 - "Bilinear Generalized Approximate Message Passing — Part I: Derivation; Part II: Applications" by **Jason T. Parker, Philip Schniter and Volkan Cevhe**, *IEEE Transactions on Signal Processing*, Volume 62, No. 22, November 2014.
successful
- 2016 IEEE SPS Young Author Best Paper Award
 - **Jack Ho**, for the paper co-authored with Wee Peng Tay, Tony Q. S. Quek and Edwin K. P. Chong, "Robust Decentralized Detection and Social Learning in Tandem Networks", *IEEE Transactions on Signal Processing*, Volume 63, No. 19, October 2015. **successful**
- IEEE SPS Distinguished Lecturer
 - **Athina Petropulu**, **successful**

Chair's Report – Award Nominations

- 2016 IEEE SPS Technical Achievement Award: Zhi-Quan (Tom) Luo, **not successful**
- 2016 IEEE SPS Society Award: Georgios B. Giannakis, **not successful**
- 2016 IEEE SPS Industrial Leader Award: John M. Cioffi, **not successful**
- 2016 IEEE SPS Magazine Best Paper Award: *“Convex Optimization-based Beamforming”*, A. B. Gershman, N. D. Sidiropoulos, S. Shahbazpanahi, M. Bengtsson, and B. Ottersten, **not successful**
- 2016 IEEE SPS Magazine Best Column Award: *“Optimal Multiuser Transmit Beamforming: A Difficult Problem with a Simple Solution Structure”* by Emil Björnson, Mats Bengtsson, and Björn Ottersten, **not successful**

Chair's Report – ICASSP Statistics

ICASSP 2012 (Kyoto)	115 accepted out of 218 submitted	8.3% of ICASSP
ICASSP 2014 (Florence)	205 accepted out of 387 submitted + 5 SPL papers	11.6% of ICASSP
ICASSP 2013 (Vancouver)	187 accepted out of 391 submitted + 12 SPL papers	11.0% 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

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)	100 submissions as of March 6, among which 72 are regular submissions, 28 invited. There are a total of 90 invited papers. Extended Deadline: March 10, 2017	??

- Financial results:
 - 2015: Surplus of \$27K out of \$68K expenses (28% surplus)
 - 2016: Surplus of £14K out of £67K expenses (17.5% surplus)

Chair's Report – GlobalSIP Participation

- GlobalSIP 2013: 5 SPCOM symposia out of 18 in total
- GlobalSIP 2014: 6 SPCOM symposia out of 13 in total
- GlobalSIP 2015: 3 symposia (#7, #8, #12) with clear connection to SPCOM
- GlobalSIP 2016:
 - M. Rabbat co-organized a symposium on SP Over Networks
 - Z.-Q. Luo and M. Hong co-organized a symposium on Distributed Information Processing, Optimization and Resource Allocation over Networks
 - M. Juntti co-organized a symposium on Transceivers and SP for 5G and mmWave.
 - SPCOM related symposia on Info Theoretic Security (Schaefer, Boche), Cognitive Radio (Poor)
- GlobalSIP 2017:
 - Z.-Q. Luo and M. Hong are co-organizing a symposium on Distributed Optimization and Resource Allocation over Networks
 - M. Rabbat is co-organizing a symposium on Graph Signal Processing
 - SPCOM related symposium on Full-duplex (Gross)

Chair's Report – Tasks Ahead

- February 15, 2017:
 - Nominations for the Marconi award (passed, no submission this year)
- May 31, 2017:
 - Nominations for Distinguished Lecturers
 - Responsible: TC chair, Awards subcommittee
- September 1, 2017:
 - Nominations for BPA, YABPA, MBPA, LBPA, OPA, SIPA and TA
 - Responsible: TC past-chair, Awards subcommittee
- November 15, 2017:
 - Vice-Chair and Membership election completed
 - Responsible: Elections and nominations subcommittee
- February 15, 2018:
 - Nominations for the Marconi award
 - Responsible: Marconi subcommittee

Update from SPAWC 2017

- Advanced SPS member registration fee: \$550USD (\$225 for students)
- Reception at Sapporo TV Tower. Banquet at Sapporo Park Hotel.
- Accommodations: \$100 USD for typical hotels.
- Sponsorship: USD 20,000 from KDDI Foundation and Telecommunications Advancement Foundation

<http://www.spawc2017.org>

A wide-angle, nighttime photograph of a city, likely Sapporo, Japan. The city is densely packed with buildings, many of which are illuminated with various colors of lights (yellow, orange, blue, green). The sky is dark blue. In the foreground, there are some dark, silhouetted trees on the right side. The text "SPAWC 2017" is overlaid in large, white, bold letters across the middle of the image.

SPAWC 2017

**The 18th IEEE International Workshop on Signal Processing Advances
in Wireless Communications, July 3 – 6, Sapporo, Japan**

Update from SPAWC 2017

- General Chairs:
 - Yasutaka Ogawa, Wei Yu, Fumiyuki Adachi
- TPC Chairs:
 - Tomoaki Ohtsuki, Lutz Lampe, Wing-Kin (Ken) Ma
- Special Session Chair:
 - Tony Q. S. Quek (16 special sessions planned)
- Plenary Speakers:
 - Ada Poon, Stanford University
 - Harald Hass, University of Edinburgh
 - Gesualdo Scutari, Purdue University
 - Vincent Lau, Hong Kong University of Science and Technologies
 - Yukihiro Okumura, NTT DoCoMo

Update from SPAWC 2018

- Dates, Venue, and Budget:
 - June 25-28, 2018 at Elite Hotel in Kalamata, Greece.
 - Hotel contract signed: 114 € (single) 135 € (double).
 - Registration fees expected to be 300-400 € range (150 € for students).



Approval of Changes in
TC Policies and Procedures (vote)

SPAWC 2019

- The TC aims to decide SPAWC two years in advance
- Normal procedure is to make decision at ICASSP, but this year's call-for-proposal was only issued in February. We will vote by email.
- Key dates:
 - ICASSP 2019: May 12-17, Brighton, UK
 - ICC 2019: May 20-24, Shanghai, China
 - ISIT 2019: July 7-14, Paris, France
- Expression of interests also received for SPAWC 2020 (China) and SPAWC 2021 (India)

Proposal for SPAWC 2019 at
Georgia Institute of Technology
Atlanta, USA

Geoffrey (Ye) Li and Xiaoli Ma

Proposal for SPAWC 2019 at
Indian Institute of Science (IISc)
Bangalore, India

Chandra Murthy and Bhaskar Rao

Proposal for SPAWC 2019 in French Riviera

David Gesbert, Laura Cottatellucci,
Florian Kaltenberger

Other Business

- Electronic Voting
- SPCOM video