



**IEEE Signal Processing Society**  
**Sensor Array and Multichannel (SAM) Technical Committee**  
**Minutes of the CAMSAP2019 Meeting**  
**Guadeloupe, French West Indies – Tuesday 17 December 2019; 12:30 PM - 13:30 PM Local Time**  
**La Créole (Beach hotel and Spa), Room “Chocolat”**

**Present TC Members:** Fauzia Ahmad, Waheed J. Bajwa, Maria Greco, Martin Haardt (Past Chair), Yongwei Huang, Wei Liu (Vice-Chair), Gonzalo Mateos Buckstein, Christoph Mecklenbräuker (Chair), Frederic Pascal.

**Student Subcommittee Chair:** Herbert Groll.

**Affiliate TC Members:** None

**Guests:** Tulay Adali (Vice President-Technical Directions of IEEE SPS), David Brie, Jean-Yves Tourneret, Cédric Richard.

## §1. Welcome

This SAM TC meeting was attended by 9 TC members.

Total number of participants: 14.

With the retiring of 7 TC members (including past Chair), 6 new TC members have been elected.

It is noted that the number of female TC members has dropped from 10 to 8.

## §2. Report from the Chair (Part 1)

### §2.1 Awards

As in previous years, the SAM TC has been very successful in its award nominations. This year, the following SAM TC nominations have been successful:

Norbert Wiener Society Award goes to Georgios Giannakis for fundamental contributions to statistical signal processing, especially for networking and communications, and for outstanding mentoring of young researchers.

Carl Friedrich Gauss Education Award goes to Peter Stoica for sustained contributions to education in the area of image and video processing and understanding

Sustained Impact Paper Award goes to Hamid Krim and Mats Viberg

Two Decades of Array Signal Processing Research: The Parametric Approach, IEEE Signal Processing Magazine, Vol. 13, No. 4, July 1996

Signal Processing Magazine Best Column Award goes to  
Emil Björnson, Mats Bengtsson, and Björn Ottersten  
Optimal Multiuser Transmit Beamforming: A Difficult Problem with a Simple Solution Structure,  
IEEE Signal Processing Magazine, Vol. 31, No. 4, July 2014

IEEE SPS Young Author Best Paper Award goes to  
Mianzhi Wang and Arye Nehorai  
Coarrays, MUSIC, and the Cramer–Rao Bound  
IEEE Transactions on Signal Processing, Vol. 65, No. 4, February 2017

These awards will be handed out during ICASSP 2020.

§2.2 Distinguished Lecturers of the IEEE SPS: Ami Wiesel was nominated by SAM TC; our TC member Xiao-Ping (Steven) Zhang was also successful.

### **§3. Workshop Reports**

#### **§3.1 CAMSAP 2019, Guadeloupe**

Jean-Yves Tournet gave a presentation about CAMSAP2019. The acceptance rate is 70% due to high-quality submissions (65% of papers received a rating above 3.0 out of 4.0)

The paper submission system was fine. Proper copyright forms for video recording of plenary speakers need to be signed. The video of Michael Elad's plenary talk,

<https://elad.cs.technion.ac.il/talks/>

might become an SPS highlight as part of the SPS Resource Center,

<https://signalprocessingsociety.org/publications-resources/sps-resource-center>

#### **§3.2 SAM 2020, Hangzhou**

Martin Haardt gave a presentation (see the attached slides). The paper submission deadline has been extended to 5 Jan. 2020.

### **§4. Proposal for CAMSAP2021 and SAM2022**

Martin gave a presentation about the CAMSAP2021 proposal (see the attached slides). Proposed location: Costa Rica. One extra special sessions chair was suggested due to the importance of special sessions for the success of CAMSAP. No decision about the proposal was made due to lack of a quorum and it was suggested to circulate the proposal in January 2020 for a vote through email.

Proposals for SAM2020 workshop are encouraged.

### **§5. SPS Activities**

§5.1 Data Science Initiative (André de Almeida and Wei Liu): no further issues.

§5.2 Challenges and Data Collections (Peter Willett, Christoph Mecklenbräuker): no further issues.

§5.3 Unification of EDICS within the SPS:

This has been completed, but on some SPS journal's websites, the journal's EDICS are not updated yet. It was commented by Tulay that the unification of EDICS is a continuous process and there will be procedures available to update the EDICS if needed, especially through the route of the following SPS Technical Working Groups (approved by the SPS BoG in Oct 2019).

#### §5.4 SPS Technical Working Groups (TWG)

There is a potential TWG proposal about Synthetic Aperture Channel Sounding which will reside under the SAMTC. The aim of this TWG would be to develop rigorous synthetic aperture techniques for wireless channel sounding at frequencies relevant to 5G cellular communications.

### §6. Report from Chair (Part 2)

#### §6.1 History of ICASSP submissions in the SAM technical area

Annual figures for SAM submissions as a fraction of total ICASSP submissions:

2020: 189 / 3977 = 4.8 % (preliminary)	Barcelona, Spain
2019: 140 / 3510 = 4.0 %	Brighton, UK
2018: 148 / 2738 = 5.4 %	Calgary, Canada
2017: 170 / 2697 = 6.3 %	New Orleans, USA
2016: 200 / 2682 = 7.5 %	Shanghai, China
2015: 212 / 2322 = 9.1 %	Brisbane, Australia
2014: 222 / 3544 = 6.3 %	Florence, Italy
2013: 216 / 3362 = 6.4 %	Vancouver, Canada
2012: 171 / 2615 = 6.5 %	Kyoto, Japan

The number of SAM submissions to ICASSP is increasing again after five years of decline. It is commented by Tulay that due to the changes associated with the unification of EDICS (see §5.3) and further input, we expect to see a clearer picture about the submission statistics of each TC at a later time.

#### §6.2 ICASSP 2019 SAM Data

140 papers submitted (2 were transferred in from other tracks before the review)

77 accepted. This results in a 53 % acceptance rate.

Additionally, there are 5 Signal Processing Letters papers presented in SAM sessions.

Three 6-paper lecture sessions, five poster sessions with 11 to 12 papers each.

- The Industry/Government Subcommittee should discuss strategies to attract more people from industry and government labs.
- Panel discussion at ICASSP 2018 on open problems for industry was organized to attract new interested people and new members from industry

#### §6.3 ICASSP 2020 SAM Data (to be updated in 2020)

The total number of submissions is 187 plus 2 transferred from other tracks.

### §7. Subcommittee Reports

### §8. Interactions with AASP-TC

### §9. Miscellaneous

Tasks Ahead (see chair's slides)

One note is the Five-Minute Video Clip Contest (5-MICC) “Let There Be a Beam!”:

<https://2020.ieeeicassp.org/authors/call-for-5-micc/>

The deadline is 15 January 2020.

### **§9. Close of the Meeting**

- We plan to have the next SAM TC meeting during ICASSP 2020 in Barcelona.
- The meeting closed at about 13:45 (local time).

// wl, mh, cfm.