



IEEE Signal Processing Society
Sensor Array and Multichannel (SAM) Technical Committee
Minutes of the SAM 2018 Meeting
Sheffield, United Kingdom – Monday July 9, 2018; 12:00 PM - 1:20 PM local time
The Diamond Building, Room: Workroom 2, Ground Level

Present TC Members: Martin Haardt (Chair), Yongwei Huang, Jian Li, Wei Liu, Christoph Mecklenbräuker (Vice-Chair), Yimin Daniel Zhang.

Associate TC Members: Peter Gerstoft, Sergiy A. Vorobyov, Pu (Perry) Wang.

Affiliate TC Members: none

Guests: Sharon Gannot, Walter Kellermann, Zhi-Quan (Tom) Luo, Lyudmila Mihaylova, Sebastian Miron, Zhiguo Shi.

§1. Welcome of New TC Members and Short Introduction

This SAM TC meeting was attended by 6 TC members.
Total number of participants: 16.

new TC members: Angela Alexiou, Alexander Berttand, Nuria Gonzalez Prelcic, Jarvis Haupt, Gonzalo Seco-Granados, Birsen Yazici.

retiring TC members: Jacob Benesty, Volkan Cevher, Mounir Ghogho, Geert Leus, Marius Pesavento, Athina Petropulu, Peter Willett (Past Chair).

returning TC members: Yimin Daniel Zhang, Fulvio Gini, Eduard Jorswieck, Frederic Pascal, Brian Sadler, Ba-Ngu Vo.

TC membership statistics: 10 female, 30 male,
14 from R1-R6, 0 from R7, 16 from R8, 1 from R9, 8 from R10,
9 industry/lab, 31 academic

§2. Report from the Chair

§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:

Signal Processing Best Paper Award: A. Sandryhaila and J. M. F. Moura, "Discrete Signal Processing on Graphs" IEEE Transactions on Signal Processing, April 2013.

Signal Processing Industrial Leader Award: Alfonso Farina.

Signal Processing Best Overview Paper Award: L. Lu, G. Y. Li, A. L. Swindlehurst, A. Ashikhmin and R. Zhang, "An Overview of Massive MIMO: Benefits and

Challenges” IEEE Journal of Selected Topics in Signal Processing, vol. 8, no. 5, October 2014.

Signal Processing Magazine Best Column Award: Ramsey Faragher, “Understanding the Basis of the Kalman Filter Via a Simple and Intuitive Derivation”, IEEE Signal Processing Magazine, vol. 29, no. 5, September 2012.

Signal Processing Sustained Impact Paper Award: Richard Roy and Thomas Kailath, “ESPRIT-estimation of signal parameters via rotational invariance techniques”, IEEE Transactions on Acoustics, Speech and Signal Processing, vol. 37, no. 7, July 1989.

§2.2 Distinguished Lecturers of the IEEE SPS

Rick S. Blum, Wing-Kin (Ken) Ma, and Geert Leus.

Note that Rick S. Blum and Wing-Kin (Ken) Ma have been successfully nominated by the SAM TC. Last year, we could not nominate Geert Leus, since he was an active member of our TC.

§2.3 History of ICASSP submissions in the SAM technical area

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

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

- SAM submissions were unusually high at ICASSP 2015 (Brisbane, Australia), perhaps due to the concentration of SAM surveillance topics in Australia
- SAM submissions are unusually low for this ICASSP 2018 (Calgary, Canada). This might also be due to the fact that CAMSAP 2017 has received a record number of submissions.

§2.4 ICASSP 2018 SAM Data

148 papers submitted (2 of which were transferred in from other tracks before review)
74 accepted, 50% acceptance ratio, as requested by conference organizers
3 IEEE Signal Processing Letters presentations in SAM sessions
Four lecture sessions with six papers each (SAM-L1, ... , SAM-L4)
Six poster sessions with 7-10 papers each (SAM-P1, ... , SAM-P6)

§2.5 ICASSP 2018 Panel Session

An Industry Perspective on Emerging Signal Processing Challenges
Panelists: Tom Baran, Gene Franz, Fernando Mujica, Brian Sadler, Mariappan Nadar, Bhuvana Ramabhadran

§2.6 Signal Processing Magazine: In the Spotlight: Sep. 2018: Highlights from the Sensor Array and Multichannel Signal Processing Technical Committee, by M. Haardt, C. Mecklenbräuker, P. Willett.

§3. Workshop Reports

§3.1 SAM 2018 report presented by Wei Liu

- SAM 2018 in Sheffield, UK, from July 8-11, 2018,
- Website: <http://www.sam2018.group.shef.ac.uk>
- Plenary talks: Michael Elad, Walter Kellermann, Jian Li, Zhiquan Luo, Alle-Jan van der Veen.
- 16 special sessions, 79 regular submissions (with acceptance rate 50% on the regular submissions), the program will accommodate approx 130 papers.
- Submissions: 170 manuscripts were submitted by 592 contributing authors from 35 countries: (China:24%,USA:16%,GB:14%,D:7%,F:4%, etc.)
 - In special sessions: 88 submissions,
 - In the open call:80 submissions,
 - Additionally two IEEE SPL papers are presented.
- Total accepted papers: 134.
- Acceptance rate for open call papers: 55 %.

§4. Progress report on planning of future workshops

§4.1 CAMSAP 2019 progress report by Sebastian Miron and Jean-Yves Tournet via Skype

- Guadeloupe, French West Indies
- December 15-18, 2019
- A special session on geophysical signal processing shall be organised, potentially by colleagues in Grenoble, France.
- A liaison person to IEEE SAM TC shall be appointed by the organisational committee.
- See further details in Slide Set [Proposal_Camsap2019_SAM_v2_compressed.pdf](#)

§4.2 SAM 2020, progress report by Zhiguo Shi.

- Hangzhou, China
- June 8-11, 2020
- Web site: <http://www.isee.zju.edu.cn/sam2020/>
- A liaison person to IEEE SAM TC shall be appointed by the organisational committee.
- See further details in Slide Set [ppt4Sheffield.pptx](#)

§4.3 Proposed dates for other SPS workshops:

- SPAWC 2020, Atlanta, USA, June 21 – 24, 2020
- SSP 2020, Rio de Janeiro, Brazil, July 12 – 15, 2020

§4.4 Call for Proposals for CAMSAP 2021

Colleagues interested in proposing to organize CAMSAP 2021 are most welcome. Please contact the chairs ASAP.

§6. SPS Activities

§6.1 Data Collections and Challenges (Peter Willett, Christoph Mecklenbräuer)

§6.2 Unification of EDICS within SPS

§7. Interactions with AASP-TC (see chair's slides, this not discussed due to lack of time)

§8. Subcommittee Reports (see chair's slides, this not discussed due to lack of time)

§9. Close of the Meeting

- We plan to have the next SAM TC meeting during ICASSP 2019.
- The meeting was adjourned at 13:20 (UK local time).