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Christoph Mecklenbräuker

Monday, May 11, 2020 14:00 – 16:00 UTC Virtual Meeting via WebEx





Agenda

- 1 Welcome
- 2 Report from Chair (Part 1)
 Membership Structure
 Awards
- CASSP 2020 (SAM TC Area)
 CAMSAP 2019, Guadeloupe
 (David Brie, Jean-Yves Tourneret)
 SAM 2020, Hangzhou goes virtual
 (Zhiguo Shi, Martin Haardt)
 CAMSAP 2021, Costa Rica ramp up
 (Martin Haardt, André L.F. de
 Almeida, Rémy Boyer)
- ☐ 4 Proposals requested for SAM 2022CAMSAP 2023
- 5 SPS Activities
 - TWG Synthetic Aperture Channel Sounding (Peter Vouras)
 - Data Science Initiative

 Data Collections and Challenges

 Unified EDICS
- 6 Report from Chair (Part 2)TC statusArchiving initiative
- 7 Subcommittee Reports
- 8 Miscellaneous



2: SAM Membership 2020

New Members

- Rémy Boyer, University of Lille, France (R8, Ac, M)
- Yao Xie, Georgia Institute of Technology, Atlanta (GA), USA (R3. Ac, M)
- Hassan Mansour, Mitsubishi Electric Research Laboratories. Cambridge (MA), USA (R1, Ac, M)
- Henry Arguello, Universidad Industrial de Santander, Colombia (R9, Ac, M)
- Usman Khan, Tufts University, Medford (MA), USA (R1, Ac, M)
- Bin Liao, Shenzhen University, Shenzhen, China (R10, Ac, M)





Retiring Members (Dec 2019)

Monica Bugallo (R1, Ac, F) Yonina Eldar (R8, Ac, F) **Braham Himed** (R2, In, M) (R3, Ac, F) Jian Li Chong Meng Samson See (R10, In, M) Milica Stojanovic (R1, Ac, F) Martin Haardt (Past Chair) (R8, Ac, M)



Returning / Re-Elected

Vincenzo Matta. 2nd term Antonio Napolitano, 2nd term 2nd term Pascal Chevalier, Kerain Abed-Merain, 2nd term Yongwei Huang, 2nd term Lei Huang, 2nd term







Statistics

13 R1-6, 1 R7, 16 R8, 2 R9, 7 R10

6 Industry/Lab, 34 Academic

8 female, 32 male



2: SAM Membership 2019

New Members

- Elias Aboutanios (Univ. New South Wales, Australia)
- Adel Belouchrani (Ecole National Polytechnique, Algeria)
- Yuejie Chi (Carnegie Mellon University, USA)
- Walter Kellermann (Friedrich Alexander University, Germany)
- Xiao-Ping (Steven) Zhang (Ryerson University, Canada)











Retiring Members (Dec 2018)

- Chong Yung Chi
- Xavier Mestre
- Phil Schniter
- Ami Wiesel
- Kainam Thomas Wong

Returning / Re-Elected

- Maria Sabrina Greco
- Fauzia Ahmad
- Waheed U. Bajwa
- André L.F. de Álmeida
- Qian He
- Hongbin Li
- Gonzalo Mateos Buckstein
- Piya Pal
- Ashish Pandharipande

Statistics

- 14 R1-6, 1 R7, 17 R8, 1 R9, 7 R10
- □ 8 Industry/Lab, 34 Academic
- □ 10 female, 32 male



2: SAM Membership Structure 2021

New SPS rules demand changes in the TC membership structure

Specifically:

- the number of associate TC members is bounded by ½ of the number of (regular) TC members
- The terms of the associate TC members are tied to the term of the TC chair

This will become effective January 2021



2: 2019 SAM Awards at ICASSP 2020 (1/2)

Norbert Wiener Society Award awarded 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 awarded to Peter Stoica for sustained contributions to education in the area of image and video processing and understanding

Sustained Impact Paper Award awarded 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*



2: 2019 SAM Awards at ICASSP 2020 (2/2)

Signal Processing Magazine Best Column Award awarded 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 awarded to
Mianzhi Wang and Arye Nehorai
Coarrays, MUSIC, and the Cramer–Rao Bound
IEEE Transactions on Signal Processing, Vol. 65, No. 4, February 2017



2: 2020 Distinguished Lecturers of the IEEE SPS and their Topics

2020 Distinguished Lecturers

Andrea Cavallaro

Gaurav Sharma

Ami Wiesel

Xiao-Ping (Steven) Zhang

Qing Zhao

https://signalprocessingsociety.org/professional-development/distinguished-lecturers

IEEE

2: 2020 Distinguished Lecturers of the IEEE SPS and their Topics

- Ami Wiesel (nominated by SAM TC)
 - ⇒ Binary optimizations in signal processing
 - ⇒ Multitask regressions and flood forecasting
 - ⇒ Structured and robust covariance estimation





⇒ Xiao-Ping (Steven) Zhang

- ⇒ Signal processing, AI and big data for finance, economics, and business
- ⇒ Passive localization and tracking for internet of things
- ⇒ Graphical probabilistic modeling, machine learning and signal processing on graph with applications in multimedia



3: Conference Report ICASSP is growing:

Virtual ICASSP 2020 Barcelona versus last year:

With 3951 (3510) submissions, 1881 (1725) accepted papers, at an acceptance rate of 47.6% (49.1%), and 67 (41) presentations of journal articles recently published in Society's Transactions and Letters, this is again the biggest ICASSP in the history of this conference series.

This task requires the whole IEEE SPS to be mobilised, and indeed 97.5% (97%) of submitted papers received three or more reviews, a whopping total of 13557 (10500) reviews submitted.

 $\frac{2625}{1}$ reviewers (Note: 13557/2625 = 5 avg)

SAM Area: 189 submission x 4 reviews = 756 requested



3: SAM TC Workshop Reports

- CAMSAP 2019
 - ⇒ Guadeloupe, French West Indies (David Brie, Jean-Yves Tourneret)
- ☐ SAM 2020
 - ⇒ Hangzhou, China (Zhiguo Shi)
- CAMSAP 2021
 - ⇒ Costa Rica (Martin Haardt, André L.F. de Almeida, Rémy Boyer et al.)















GUADELOUPE, FRENCH WEST INDIES



DECEMBER 15-18, 2019









Organizing Committee

General Co-Chairs
 David Brie, University of Lorraine, France
 Jean-Yves Tourneret, University of Toulouse, France





Technical Co-Chairs
 Geert Leus, TU Delft, Netherlands
 Antonio Marques, King Juan Carlos University, Spain





Local Chairs
Cédric Richard, Nice Sophia-Antipolis University, France
Guillaume Ginolhac, University of Savoie, France





Special Sessions
 Romain Couillet, Centrale Supélec, France
 Yoann Altmann, Heriot-Watt University, UK







Organizing Committee









Publications
 Nicolas Gillis, University of Mons, Belgium
 Yannick Berthoumieu, University of Bordeaux, France







Fauzia Ahmad, Temple University, USA



Technical program in a glance

- Journey that started 1.5 years ago!
- 5 invited speakers
 - A. Swami. M. Elad, R. Vidal, P. Abry, K. Ma
 - Nice and diverse collection of topics
 - Right after, SS associated with the plenary talk
- 2 tutorials
 - E. Bjornson & L. Sanguinetti, G. Mateos & S. Segarra
 - · Comms vs. Data-science oriented
- 27 oral and poster sessions: 18 invited and 9 regular
- 1 student paper contest: 8 finalists and 3 awards



















Paper stats and budget

- Papers Registrations
 - 165 submissions (72 regular, 93 invited)
 - 3.75 reviews per paper, all of them at least 3
 - Good quality: 65% received a score of 3.0/4.0 or more, 70% acceptance rate
 - 186 registrations
- Budget
 - Total Receipts (pre-loan): 136.820,00
 - Total Expenses (pre-loan): 112.788,70
 - Surplus/Loss: 24.031,30
 - Surplus Percentage: **21**%



IEEE SAM 2020

Hangzhou, China

(Fully Virtual Conference)

June 8-11, 2020







Organizing Committee

General Co-Chairs



___ Martin Haardt (TU Ilmenau, Germany)

Zhiguo Shi —— (Zhejiang U, China)



Technical Co-Chairs



André L. F. De Almeida
 (Federal U Ceará, Brazil)

Qian He — (UESTC, China)



Special Session Chairs



Lei Huang (Shenzhen U, China)

> Yujie Gu — (Temple U, USA)



Publicity Chair



Antonio De Maio (University of Naples Federico II, Italy)

Xiaopeng Yang (BIT, China) —



Finance Chair

Publication Chair



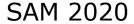
- Bo Chen (Xidian Univ., China)

Junfeng Wu Chengwei Zhou (Zhejiang Univ., China)

Local Chair









Zhejiang University (Host)





- Top tier university in China
- 23,302 undergraduates
- 22,376 postgraduates
- 8,222 faculty and stuff members





Our research group can provide enough volunteers.



Virtual Conference Platform

- Software: Zoom
 - Popular online meeting solution during COVID-19 pandemic
- Service Provider: Conference Catalysts, LLC
 - World-class conference, operations, and web management solutions
 - Support for SPAWC, ICME of the IEEE SPS







Tutorial Speaker



Zhi-Quan (Tom) Luo
Department of Electrical and Computer Engineering
University of Minnesota, Twin Cites



Tutorial Speaker



Marius Pesavento



Minh Trinh Hoang



Mats Viberg

Technische Universität Darmstadt Germany Blekinge Institute of Technology Sweden



Keynote Speakers



Ami Wiesel
The Hebrew University of Jerusalem



Anna Scaglione
University of Arizona



A. Lee Swindlehurst University of California, Irvine



Georgios Giannakis
University of Minnesota



Lieven De Lathauwer
KU Leuven



Wen Tong
Huawei Technologies Co., Ltd.



Special Sessions

Na.	Organizers	Title
1	Xisohuan Wu, Hua Chen & Qing Wang	Robust Super-Resolution DOA Estimation and its Applications
2	Jun Fang & Hongbin Li	Sparse and Low-Rank Signal Processing for Millmeter Wave Communications
3	Yulong Huang & Lieng Zhang	Multi-Sensor Data Fusion for Underwater Application
4	Guolong Cui, Bin lao & Yong Jia	Cognitive Waveform Diversity Design and Signal Processing
5	Cheng Qian, Xiao Fu & Kejun Huang	Structured Tensor and Matrix Methods for Sensing, Communications, and Machine Learning
6	Jingwei Xu, Hing Cheung So & Wen-Qin Wang	Waveform Diverse Array Reder
7	Jun Liu & Danilo Orlando	Advanced Techniques in Radar Detection, Localization, and Electronic Counter-Measures
	Yongming Huang, Himal Suraweera & Alessio Zappone	Intelligent Antenna Arrays and Surfaces for Future Communications
9	Wei Liu & Yimin D. Zhang	Aperture Extension and Synthetic Techniques for High-Resolution Detection and Estimation
10	Pu (Perry) Wang & Ting Yuan	Automotive Radar Sensing
11	Lei Cheng & Yik-Chung Wu	Structured Matrix/Tensor Decompositions: Models, Applications and Fast Algorithms
12	Elias Aboutanios & Xiangrong Wang	Recent Advances in Beamforming Techniques and Applications
13	Chong-Yung Chi & Chie-Hsleng Lin	Unsupervised Computing and Large-Scale Optimization for Multi-dimensional Data Processing
54	Karim Abed-Meraim & Adel Belouchrani	Dependent Source Separation
15	Xianpeng Wang, Liangtian Wan & Fangging Wen	Array Signal Processing with Imperfect Scenarios
16	Xiaofei Zhang & Junpeng Shi	Sparse Array Configuration for Improved Spectrum Estimation and its Applications
17	Xue Jiang & Zhongtu Ye	Robust Beamforming Based on Convex-Nonconvex Optimization
18	Lei Huang & Mohamed Rihan	Integrated Radar-Communication Systems and Networks: Advancements, Challenges, and Opportunities
19	Geng Li & Xiaolan Qiu	Advanced Methods of Synthesic Aperture Radar Imaging



Statistics

Number of submitted papers	257 (highest submissions in SAM history)
Number of accepted papers	167
Expected number of authors	74
Average number of attendees for past 5 years	165

** Expected number of authors means the expected number of authors who would pay the author registration rate subject to that each registration can cover up to four papers. This is a much lower number than the previous average number of attendees, i.e. 165. This leads to the high registration fee.



Program – Tutorials

June 8, 2020	Tutorial 1
Asia/Shanghai	
4:30 - 7:30 PM CET	Optimization Techniques for Beamforming
10:30 – 1:30 PM	(Tom Luo)
EST	
4:30 – 7:30 AM	
June 8, 2020	Tutorial 2
June 8, 2020 Asia/Shanghai	
Asia/Shanghai 8:00 - 11:00 PM	Four Decades of Array Signal Processing Research:
Asia/Shanghai 8:00 - 11:00 PM CET	
Asia/Shanghai 8:00 - 11:00 PM CET 2:00 - 5:00 PM	Four Decades of Array Signal Processing Research: An Optimization Relaxation Rechnique Perspective (Marius Pesavento, Minh Trinh Hoang,
Asia/Shanghai 8:00 - 11:00 PM CET	Four Decades of Array Signal Processing Research: An Optimization Relaxation Rechnique Perspective

Live + Q&A session



Approved Budget Overview

Promotion/Advertisement	\$702.50
Professional Service	\$11521.00
Conference Service	\$13769.00
Speaker Expenses & Honorariums	\$4496.00
Grants & Conference Awards	\$1405.00
Administrative Fee	\$637.87
Contingency	\$1594.68
Total	\$34126.05



Budget Details

Category	ltem	Amount (USD)
Promotion	Advertisements	702.50
	Internet&Telephone	702.50
Conference Service	Volunteer	2810.00
	Virtual Platform	10256.50
	Registration Services	8430.00
Professional Service	Paper Management Services	2810.00
	Accepted Paper Service	281.00
Grants & Awards	Grants Awarded	1405.00
Speaker Expenses	Keynote/Tutorial Speaker Fee	4496.00



Registration Rate

Rates for	Author Rate		Non-Author Rate	
Membership Level	USD	RMB	USD	RMB
SPS Member	\$435.55	¥3085	\$0	¥0
IEEE Member	\$505.80	¥3583	\$0	¥0
Non-Member	\$590.10	¥4180	\$0	¥0
SPS Student Member	N/A	N/A	\$0	¥0
IEEE Student Member	N/A	N/A	\$0	¥0
Student Non-Member	N/A	N/A	\$0	¥0
IEEE Life Member	N/A	N/A	\$0	¥0

> Each registration includes admission to the technical sessions, exhibits, and one copy of the electronic proceedings



> Each author registration can cover up to Four papers





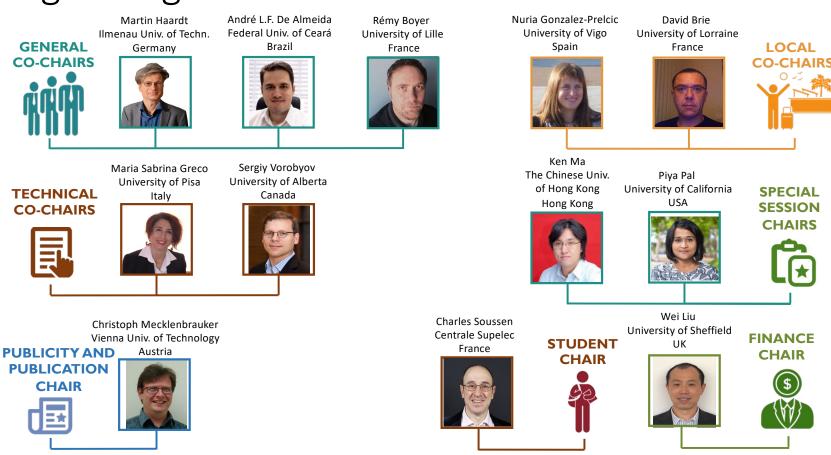


9th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing

Costa-Rica, December 12-15, 2021



Organizing committee



IEEE

Location: Costa Rica



Capital: San José

Official language: Spanish

51000 sq. km for a population of 5 millions

Time zone: UTC - 6 h

I \$ = 561 CRC (Costa Rican Colon)

Costa Rica is the most industrialized country in Central America

Costa Rica is a largely safe country, but petty crime can occur







The climate is tropical year round



3 all-inclusive resorts are considered (**Dreams** Las Mareas, Westin Golf Resort and Spa, Riu Guanacaste)





SJO is the primary airport serving San José, the capital of Costa Rica (around 5 million of passagers)





Suggested schedule

December 2020: First annoucement and call for papers

March 2021: Special session proposals

July 2021: Full paper submission

September 2021: Notification of acceptance

October 2021: Camera-ready paper and tentative program

November 2021: Early registration due date



4: SAM TC Workshop Proposals

- **□ SAM 2022**
 - ⇒ Preparation of proposals is encouraged
- **⇒ CAMSAP 2023**
 - ⇒ Preparation of proposals is encouraged



5: SPS Activities

- SPS Data Science Initiative
 - ⇒ André de Almeida, Wei Liu
- Data Collections and Challenges
 - ⇒ Christoph Mecklenbräuker, TBD
- Unification of EDICS within the SPS
 - ⇒ Christoph Mecklenbräuker



5: Unified EDICS

Overall goal is alignment of EDICS for all IEEE SPS publications and conferences.

IEEE SPS Publications Board started this 2018.

Request by Tulay Adali in April 2019 to SAM TC to review and comment

https://signalprocessingsociety.org/publicationsresources/unified-edics

5: Unified EDICS

SAM-APPL Applications of sensor & array multichannel processing

SAM-BEAM Beamforming

SAM-CALB Array calibration

SAM-CSSM Compressed sensing and sparse modeling

SAM-DOAE Direction of arrival estimation

SAM-GSSP Geophysical and seismic signal processing

SAM-IMGA Inverse methods and imaging with array data

SAM-LRNM Learning models and methods for multi-sensor systems

SAM-MCHI Multichannel processing, identification, and modelling

SAM-MAPR Microphone array processing

SAM-NWAV Non-wave based array processing

SAM-PERF Performance analysis and bounds

SAM-SDET Source detection and separation

SAM-SENS Multi-sensor remote sensing

SAM-STAP Space-time adaptive methods

SAM-TNSR Tensor-based signal processing for multi-sensor systems

IEEE

SAM-MUCN Multi-user and cooperative networks

SAM-CAMS Computational advances for multi-sensor systems

5: Unified EDICS

RAS-DTCL Target detection, classification, localization

RAS-LCLZ Source localization

RAS-MIMO MIMO Radar and waveform design

RAS-SARI Synthetic aperture radar/sonar and imaging

RAS-SONR Sonar and underwater signal processing

RAS-TRCK Target tracking

BIO-SENS Sensor arrays for medical signal and image processing

SPC-MIMO Multiple-input multiple-output communication systems

SPC-MMIMO Massive MIMO communication systems



5: Unified EDICS – Update Procedure

Procedure for continuous updating the unified EDICS is established:

- Either an EiC or a TC Chair can initiate request for a change in EDICS: modification, addition or deletion
- Requested changes should reflect the ongoing changes in the field. It is desirable to have the proposals supported by data.
- If this is an EiC contacts the VP-Pub and if a TC Chair, contacts VP-TD and the VP makes the connection with the corresponding (most relevant) EiC or TC Chair accordingly working with the corresponding VP. Here, multiple EiCs or TC chairs might be involved if needed.
- Once the EiC(s) and TC Chair(s) reach a decision, they send their suggested change to the VP-Pub and VP-TD who together bring the requested change to ExCom for approval.



5: Unified EDICS for 2020 and beyond

Unified EDICS List

https://signalprocessingsociety.org/publications-resources/unified-edics



SPS Technical Working Groups

(approved by the SPS BoG in Oct 2019)

- Technical Subgroups redefined as Technical Working Groups (TWG).
- TWG resides under a primary TC
- TWG covers a specific topic within SPS Field of Interest.
- Breadth of activities much larger than that of a Technical Subgroup as defined previously.

TWG Synthetic Aperture Channel Sounding

Final approval by IEEE SPS on 15 April 2020 TWG resides under SAM TC

TWG Chair: Peter Vouras (NIST)



TWG Synthetic Aperture Channel Sounding

Background Information

- Synthetic Aperture Technical Working Group (TWG) received final approval on April 15, 2020
- First virtual meeting scheduled for May 19
- Roster includes representatives from:
 - Rensselear Polytechnic Institute
 - University of Rochester
 - University of Melbourne
 - Air Force Research Laboratory
 - Temple University
 - University of Pisa
 - National Institute of Standards and Technology

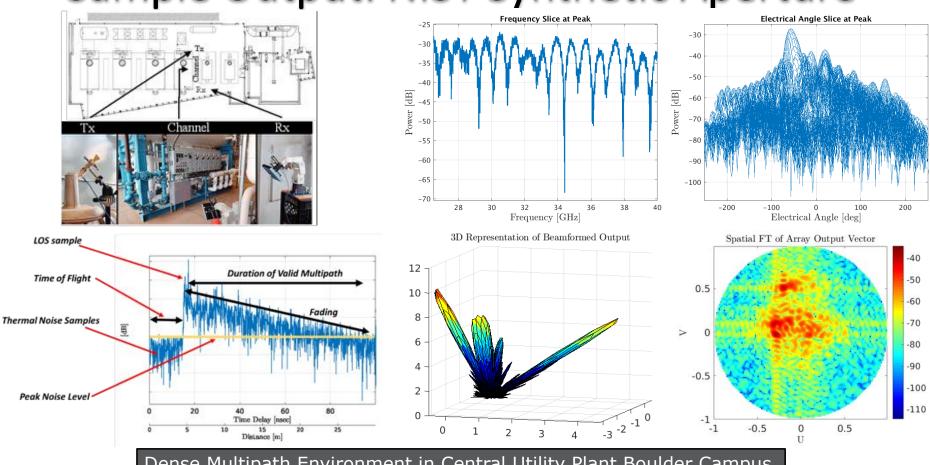
Scope

- The purpose of this TWG is to unify the theoretical framework for synthetic aperture estimation techniques across a wide range of frequencies and propagation media
- Synthetic aperture applications of interest include:
 - Wireless channel sounding
 - Synthetic aperture radar
 - Sonar
 - Medical Ultrasound
 - Seismic Imaging
 - Phased array and wireless device testbeds
- Relevant technical challenges include:
 - Robust hardware designs
 - Wideband implementations
 - · Joint delay-angle estimation
 - Super-resolution techniques
 - · Impact of position errors and measurement uncertainties
 - Real-time processing



TWG Synthetic Aperture Channel Sounding

Sample Output: NIST Synthetic Aperture



Dense Multipath Environment in Central Utility Plant Boulder Campus



Initiatives

Archiving of SAM Workshop Websites

- ⇒ Responsible: Waheed U. Bajwa
- ⇒ Past workshops are often housed on University servers, and eventually are removed.
- ⇒ Lost TC memory (and memories).
- ⇒ IEEE is willing to house them, link from web page.
- ⇒ Presently the following workshops have been archived:
 - > SAM 2018
 - CAMSAP 2017
 - > SAM 2016
 - CAMSAP 2015
 - > SAM 2014
 - CAMSAP 2013
 - CAMSAP 2011
 - > SAM 2010
 - CAMSAP 2009
 - > CAMSAP 2007
 - CAMSAP 2005
 - > SAM 2002
- ⇒ To Do: CAMSAP 2019,
- ⇒ Missing: SAM 2012, SAM 2008, SAM 2006, SAM 2004.



6: History of ICASSP SAM Area Submissions

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

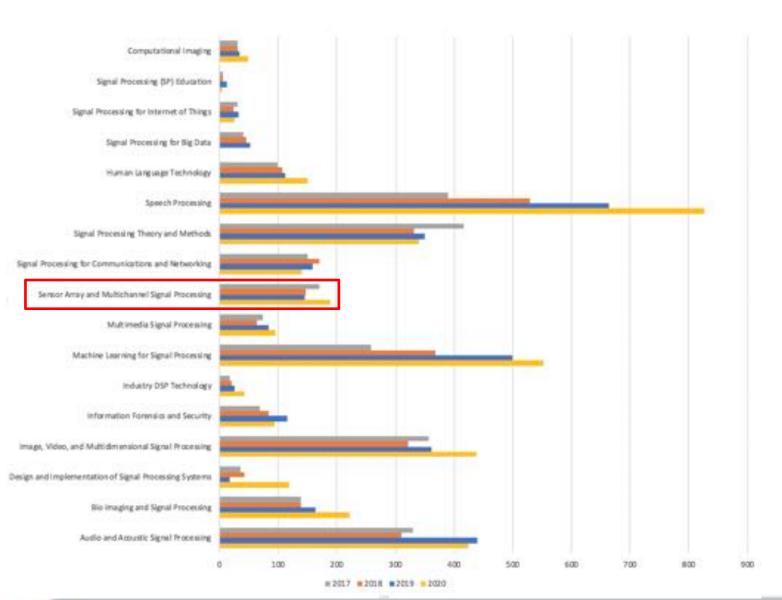
```
\Rightarrow 2020: 189 / 3951 = 4.8 %
                                             Barcelona, Spain
\Rightarrow 2019: 140 / 3510 = 4.0 %
                                             Brighton, UK
\Rightarrow 2018: 147 / 2738 = 5.4 %
                                             Calgary, Canada
\Rightarrow 2017: 170 / 2697 = 6.3 %
                                             New Orleans, USA
\Rightarrow 2016: 200 / 2682 = 7.5 %
                                             Shanghai, China
\Rightarrow 2015: 212 / 2322 = 9.1 %
                                             Brisbane, Australia
\Rightarrow 2014: 222 / 3544 = 6.3 %
                                             Florence, Italy
⇒ 2013: 216 / 3362 = 6.4 %
                                             Vancouver, Canada
\Rightarrow 2012: 171 / 2615 = 6.5 %
                                             Kyoto, Japan
```

It seems that the number of SAM submissions is increasing again after five years of decline.

Some key issues in this matter are: Unified EDICS Role of Special Sessions



6: ICASSP Submissions 2017-2020





6: ICASSP 2020 SAM Area

- 189 papers submitted (of which 2 were transferred in from other tracks before the review)
- 86 accepted regular submissions. This means a
 45,5 % acceptance rate.
- Additionally there are 5 Signal Processing Letters presented in SAM sessions.
- Four 6-paper lecture sessions,
 six poster sessions with up to
 12 papers each.

- L1 Direction of Arrival Estimation
- L2 MIMO Systems and MIMO Radar
- L3 Sparse Arrays and Sparse Sensing
- L4 Learning models and methods for multi-sensor systems
- P1 Radar and Acoustic Array Processing
- P2 Beamforming, Relaying, and Source Separation
- P3 Localization and Tracking
- P4 Detection, Estimation and Classification
- P5 Sparsity, Super-Resolution, and Imaging
- P6 Robustness, Decompositions, Calibration, and Bounds

7: Subcommittee 2020 Reports

- Technical Directions (Maria Sabrina Greco, Gonzalo Seco-Granados, Birsen Yazici)
- Awards (Antonio Napolitano, Jarvis Haupt, Lei Huang, Walter Kellermann)
- Nominations and Elections (<u>Fulvio Gini</u>, Yimin Daniel Zhang, Vincenzo Matta, Xiao-Ping (Steven) Zhang)
- Workshops (André L. F. de Almeida, Wei Liu, Frederic Pascal)
- Webmaster (Waheed U. Bajwa, Alexander Bertrand)
- Newsletter (Hongbin Li, Yao Xie, Nuria González Prelcic)
- Membership (Piya Pal, Yongwei Huang)
- Industry/Government (<u>Braham Himed</u>, Chong Meng Samson-See, Pascal Chevalier)
- Education (Adel Belouchrani, Henry Arguello)
- **EDICS** (Christoph Mecklenbräuker, Wei Liu, Usman Khan)
- **Student** (<u>Herbert Groll</u>, Christoph Mecklenbräuker)

(<u>underline</u> means chair)



7: Subcommittee 2020 Reports

Area Chairs

- Applications of SAM processing
- Beamforming and space-time processing
- Detection, estimation, and source separation
- Multi-antenna and multi-channel comm.
- Radar array processing
- Sensor array processing
- Sensor networks

Brian Sadler

Gonzalo Seco-Granados

Karim Abed-Meraim

Eduard Jorswieck

Fauzia Ahmad

Rémy Boyer

Ashish Pandharipande

Four Regional Representatives

- 1. USA (1-6)
- 2. Canada/Latin America (7/9)
- 3. Europe/Mid East/Africa (8)
- 4. Asia/Pacific (10)

Gonzalo Mateos Buckstein

Xiao-Ping (Steven) Zhang

IEEE

Frederic Pascal

Qian He

8: Discussion topics

SP Cup 2020

Unsupervised abnormality detection by using intelligent and heterogeneous autonomous systems https://2020.ieeeicassp.org/authors/sp-cup-2020/

SP Cup proposal for 2021

- ⇒ For undergraduate students
- ⇒ Should be organized by the Student Subcommittee
- ⇒ All TC members can provide input (yes! indeed!)
- ⇒ A playful story seems to be important for acceptance
- ⇒ New suggestion?
 - Tbd
 - Proposal deadline in September 2020



Task List 2020-2021 (1/3)

May 31, 2020:

Nominations for Distinguished Lecturers (Responsibility: TC chair, Awards subcommittee)

June 15, 2020:

Newsletter issue with report from ICASSP 2020 and SAM 2020, awards, first announcement of CAMSAP 2021 (Responsibility: Newsletter Subcommittee)

June 30, 2019:

Review the current list of associate and affiliate members (Responsibility: Membership Subcommittee)

September 1, 2019:

Nominations for Paper Awards: BPA, YABPA, MBPA, LBPA, OPA, SIPA (Responsibility: TC Vice-Chair, Awards subcommittee)

Nominations for Society Award, Technical Achievement Award (Responsibility: TC Chair, Awards subcommittee) Sign

Task List 2020-2021 (2/3)

September 2020:

Proposal submission for SP Cup 2021 Proposals for SAM 2022 to be submitted to SAM TC Chairs

November 15, 2020:

Membership election completed (Responsibility: Elections and nominations subcommittee)

November - December 2020:

ICASSP 2021 Paper Reviews and Decisions (Responsibility: TC-chair) Paper acceptance communicated to authors January xx, 2021



Task List 2020-2021 (3/3)

January 15, 2021:

Five-Minute Video Clip Contest (5-MICC)

January 31, 2021:

Update of IEEE SAM TC Website: Membership 2021
Assignment of new members to subcommittees
Make sure that mailing lists reflect updated membership

March 2021:

SP Cup Submission Deadline March xx, 2021

Unsupervised abnormality detection by using intelligent and heterogeneous autonomous systems

https://2020.ieeeicassp.org/authors/sp-cup-2020/

January - April 2021:

Preparation of proposals for SAM 2022 and CAMSAP 2023 submission to chairs



CUAGN

at virtual IEEE SAM Workshop 2020 in Hangzhou

and

at next IEEE ICASSP 2021 in Toronto with the next SAM TC meeting



