

SAM TC Meeting ICASSP 2013

28-May, 2013

Vancouver, Canada

Agenda

18:30 Welcome new TC members/introductions

18:40 Dinner and Report of the chair

- Awards, Distinguished Lecturers, Fellows
- ICASSP 2013 submissions
- T-SP SAM EDICS update
- TC status
- Changes in SPS awards nominations

18:55 Workshop reports

- SAM 2012 (Hongbin Li)
- CAMSAP 2013 (Aleksandar Dogandzic)

19:10 Proposal for SAM 2014

- Presentation, discussion (Monica Bugallo)
- Voting?
- CAMSAP 2015

19:30 Subcommittees

- Assignments
- Manual

19:40 Discussion topics

- From Technical Directions Board
- Attract members from industry
- SPS SP Cup, SPS TC Competition
- Jobs Marketplace

20:00 End

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New Members

- Chong-Yung Chi, Taiwan
- Xavier Mestre, Spain
- Philip Schniter, USA
- Ami Wiesel, Israel
- Kainam Thomas Wong, Hong Kong
- Rui Zhang, Singapore

Retired Members: Biao Chen, Aleksandar Dogandzic, Erik Larsson, Hongbin Li, Sergiy Vorobyov, Abdelhak Zoubir

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Awards

SPS Awards: 8 nominations, 5 selected for awards

- Society Award: J. Moura
- Best Paper Award: Kim, Koh, Lustig, Boyd, Gorinevsky; (APP)
- Young Author Best Paper Award: Needell; (DET)
- SPM Best Paper award: Gesbert, Kountouris, Heath Jr., Chae , Salzer (NET)
- SPM Best Column Award: Larsson (DET)

Distinguished Lecturer: 1 nomination, not successful

Two TC members received SPS Awards:

- **Ali Sayed**: Technical Achievement Award, Best Paper Award
- **Athina Petropulu**: Meritorious Service Award

Fellows

Two members newly elected to be fellows of IEEE

- **Antonio De Maio**
 - for contributions to radar signal processing
- **Erchin Serpedin**
 - for contributions to synchronization of communication systems

How many Fellows in the SAM TC?

SAM EDICS

- Two added, three removed

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 and source localization
SAM-GSSP	Geophysical and seismic signal processing
SAM-IMGA	Imaging with array data
SAM-MCHA	Multichannel processing
SAM-NWAV	Non-wave based array processing
SAM-PERF	Performance analysis
SAM-RADR	Radar signal processing
SAM-SDET	Source detection
SAM-SENS	Remote sensing of the environment
SAM-SONR	Sonar signal processing
SAM-STAP	Space-time adaptive methods
SAM-SYAM	Synthetic aperture methods
SAM-TNSR	Tensor-based signal processing

New EDICS on RAS (Radar & Sonar)

RAS-CARD	Cognitive/fully adaptive radar processing
RAS-CDSN	Code design: correlation properties, ambiguity function
RAS-CLBR	Calibration
RAS-DMMP	Distributed and MIMO radar/sonar processing
RAS-DTCL	Target detection, classification
RAS-IMFR	Radar image formation and reconstruction
RAS-INFT	Information theoretic advances for radar and sonar
RAS-LCLZ	Source localization
RAS-PMBD	Performance measures and bounds
RAS-PRSP	Passive radar signal processing
RAS-RSMG	Resource management issues
RAS-SARI	Synthetic aperture radar/sonar and imaging
RAS-SONR	Sonar and underwater signal processing
RAS-TRCK	Target tracking
RAS-WVFM	Waveform agile radar (diversity and design)

ICASSP 2013

- 216 submissions received, 114 accepted (53%)
- SAM submissions increased significantly compared to 2012, percentage of SAM papers similar:
 - 2013: $216/3362 = 6.42\%$
 - 2012: $171/2615 = 6.54\%$
- Papers allocated to 4 lecture and 7 poster sessions
- Two joint sessions with SPTM TC

Members

- 37 members:
 - Academia (33), **Industry (1)**, Government Labs (3)
 - Male (34), **Female (3)**
- Member Grade Distribution:

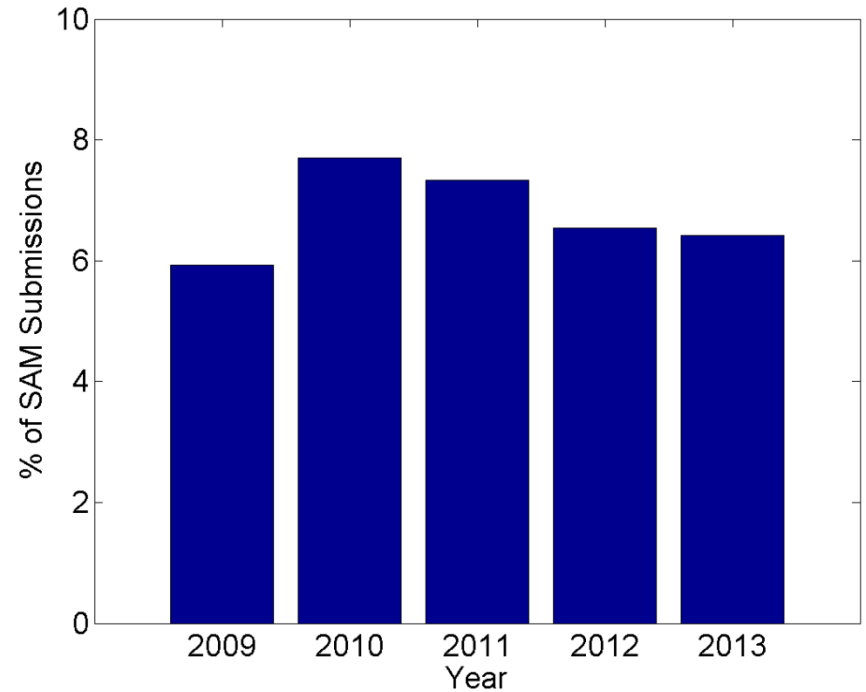
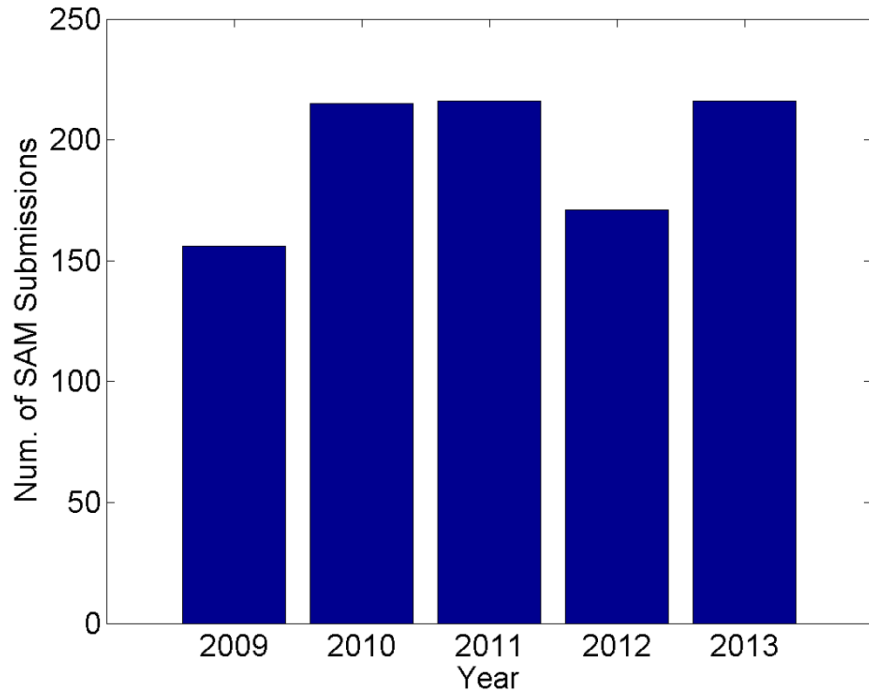
Grade	Fellow	Senior	Member	Affiliate
Count	16	14	5	2

- Geographic Distribution:

Region	1	2	3	4	5	6	7	8	9	10
Count	4	4	0	0	3	3	1	19	0	3

Regions: 1:6 (USA), 7 (Canada), 8 (Europe), 9 (Latin America), 10 (Asia Pacific)

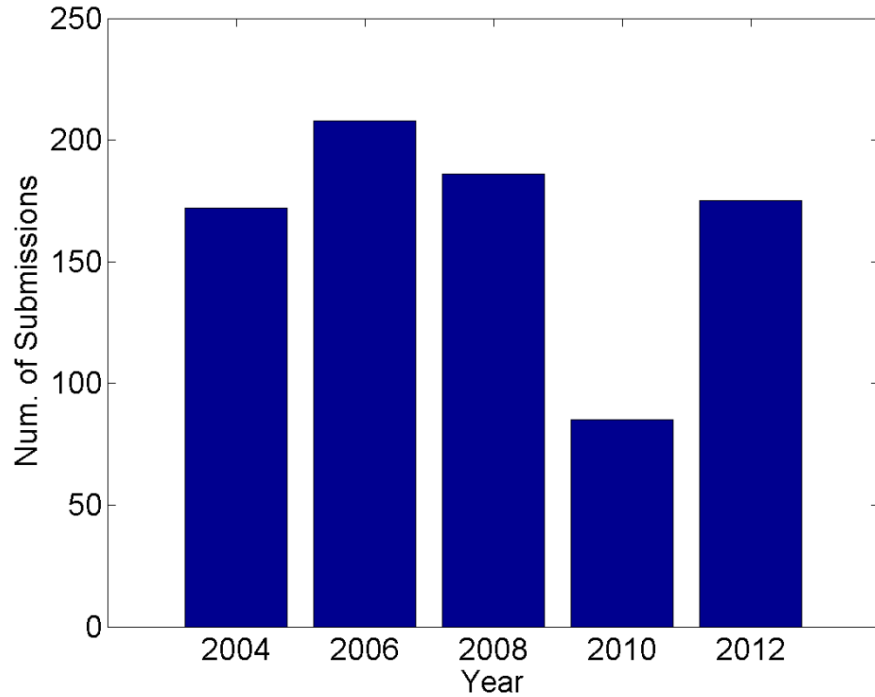
Trends in SAM Submissions: ICASSP



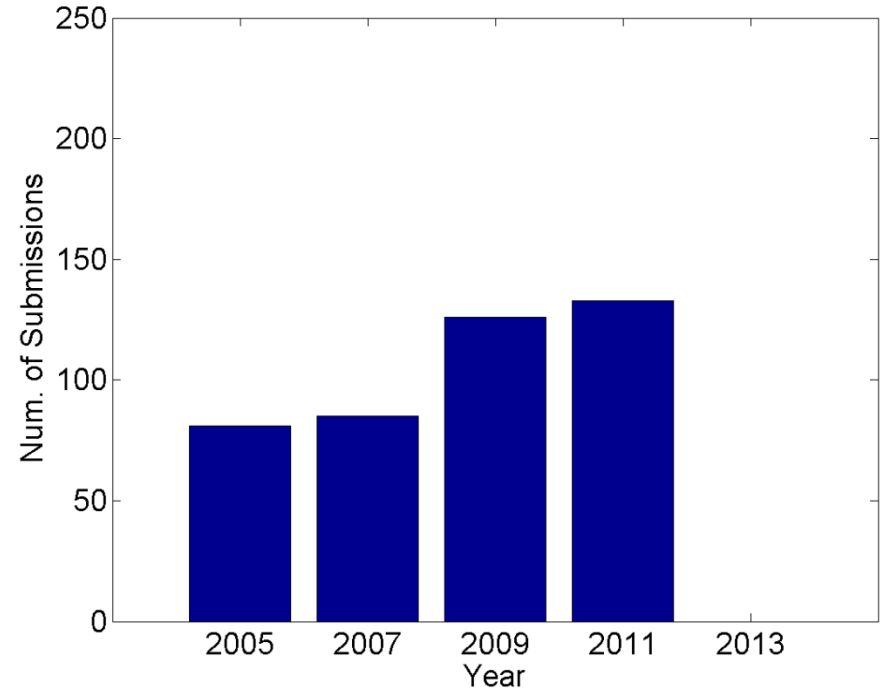
- ICASSP 2009 was in Taiwan
- ICASSP 2012 was in Japan

SAM Workshop, CAMSAP

SAM Workshop

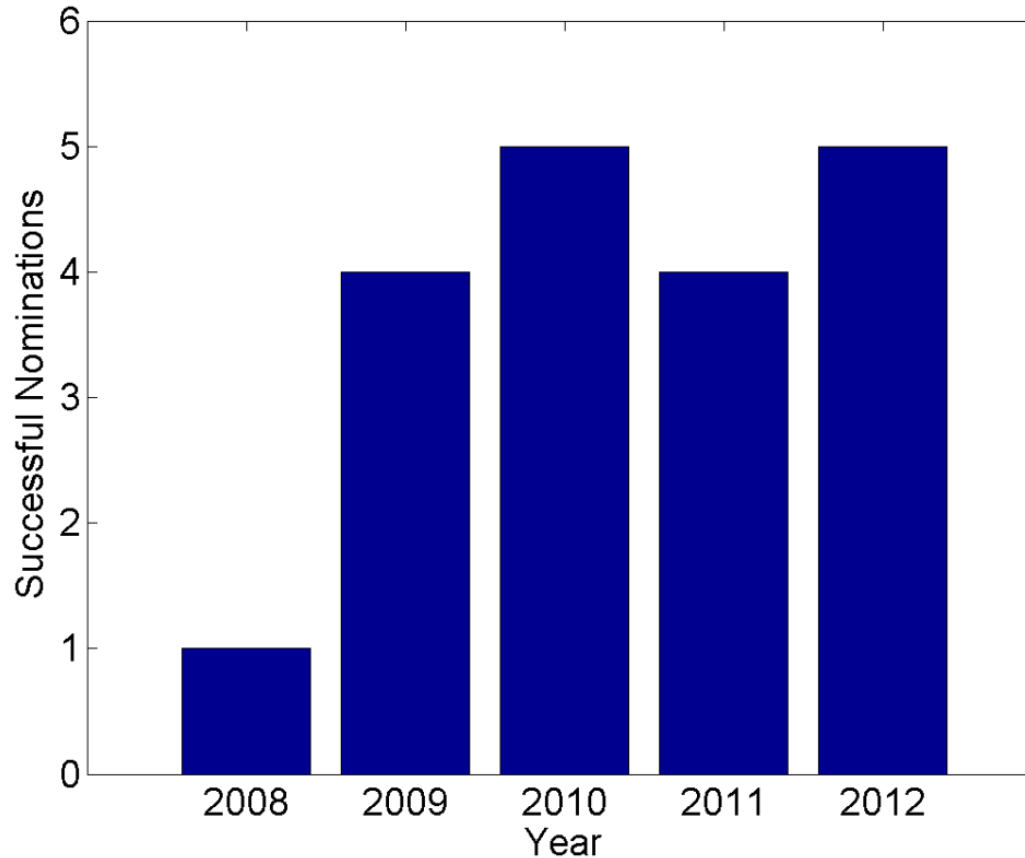


CAMSAP



– SAM 2010 was in Israel

Performance in SPS Award Nominations



- BP nomination Success Rate: 90% (2003-2012); 100% (2010-2012)
- YA nomination Success Rate: 70% (2003-2012); 100% (2010-2012)

SPS Awards: Changes

- Citation impact required
- Best Paper Award for Signal Processing Letters added
- Nomination deadline changed from 30-Sep. to 1-Sep.
- A board or committee cannot nominate one of its members for an award. However, the board/committee member can be nominated by another board/committee, or by an individual

Improvements Needed

- Member Diversity
- SP Cup, TC Competition
- Student Involvement
- Jobs Marketplace

SAM TC 3-Year Review

- 3-Year review in this ICASSP, Friday at 3:30pm
- Concerns from last review:
 - Significant overlaps in technical areas with SPTM, SPCOM, AE
 - Lack of members from industry

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STATOS 2013

A Workshop in memory of **Alex B. Gershman**

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Request From Technical Directions Board

- Any standardization opportunities from SAM?
- Opinions about standardized process for award nominations among all SPS TCs?
- How to do outreaching and build community?
- Proposals of mini-conference under GlobalSIP (umbrella conference)

Signal Processing Cup

- Objective: provide graduate and undergraduate students an opportunity to form teams in solving a challenging and interesting real-world problem in signal processing.
- The competition will be run annually
- Three teams will be invited to present their works at ICASSP and will be awarded prizes
- Each TC can submit one proposal, which should include some details of a challenging problem, the assessment criteria, and any required data, etc.
- Proposal Deadline: 26-July

TC Competition

- Objective: for researchers, graduate students, engineers to focus and work on recognized challenges
- The goals of the competition are to identify new topics that will broaden the scope and energize or re-energize Technical Committees, encourage our members to explore these topics, and attract new members outside the SP community to the Technical Committees and Society
- Proposal deadline: third week of October
- In 2012, four TCs submitted proposals and three accepted: [MMSP](#), [SPCOM](#), [SL](#), [BISP](#)

Topics for Special Issues of Signal Processing Magazine

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