

Informal SAM TC Meeting

SAM 2014

June 24, 2014

A Coruña, Spain

Discussion Topics

- Member Diversity and Election
- Award Process
- Associate Member
- Affiliate Member
- Workshop
- Future Direction

Member Diversity and Election

- How to recruit good members from government labs/industry, Region 10 and female members?

Member Diversity

- Industrial:

Count	Academic	Industry	Gov-Lab
2013	33	1	3
2014	32	1	4*

*two will retire in 3 years

- Gender:

Count	Male	Female
2013	34	3
2014	30	7

- Geographic:

Percentage	Rg.1-6	Rg. 7	Rg. 8	Rg. 9	Rg. 10
2013	38 %	3 %	51 %	0%	8 %
2014	41 %	0 %	49 %	0 %	10 %
IEEE (2012)	41 %	3 %	30 %	3 %	23 %

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

Member Diversity and Election

- How to recruit good members from government labs/industry, Region 10 and female members?
- Shall we actively recruit members with microphone array background?

SAM Topic Statistics, ICASSP 2014

Group	Topic	Count
1 Sensor Array Processing	1.1 Beamforming	29
	1.2 Physics-based sensor array processing	11
	1.3 Inverse methods	5
	1.4 Array calibration methods	6
	1.5 Synthetic aperture methods	4
	1.6 Signal detection and parameter estimation	45
	1.7 Direction-of-arrival estimation	48
	1.8 Source localization, classification, and tracking	48
	1.9 Blind source separation and channel identification	9
2 Adaptive Array Signal Processing	2.1 Adaptive beamforming	14
	2.2 Space-time adaptive processing	11
	2.3 MIMO radar and waveform diversity	16
	2.4 Computational advances in array processing	9
3 Multi-channel Signal Processing	3.1 Channel modeling and equalization	4
	3.2 Multi-channel transceiver design	3
	3.3 Sparsity structures in multichannel signal processing	15
	3.4 Multi-channel processing with non-wave based sensors	1
	3.5 Tensor-based signal processing for multi-sensor systems	5

SAM Topic Statistics, ICASSP 2014

Group	Topic	Count
4 Multi-antenna and Multi-channel Signal Processing for Communications	4.1 MIMO systems and algorithms	11
	4.2 Space-time coding and decoding algorithms	0
	4.3 MIMO space-time code design and analysis	2
	4.4 Multi-user MIMO networks	5
	4.5 Array processing for wireless communications	16
	4.6 Multi-antenna/multi-channel processing for cognitive radios	4
5 Sensor and Relay Networks	5.1 Sensor and relay network signal processing	21
	5.2 Network beamforming and coding	8
	5.3 Distributed and cooperative processing	18
	5.4 Data fusion and decision fusion from multiple sensor types	7
	5.5 Multi-Sensor processing for smart grid and energy systems	5
	5.6 Network agent activity monitoring	0
	5.7 Wireless acoustic sensor networks	9
6 Applications of Sensor Array and Multi-channel Signal Processing	6.1 Radar array processing	30
	6.2 Sonar array processing	9
	6.3 Microphone array processing	31
	6.4 Hyperspectral processing and unmixing	5
	6.5 Integrated multi-model sensing	1
	6.6 Super-resolution sensing and reconstruction	9
	6.7 Multi-channel imaging	4
	6.8 Multi-channel biological & medical modeling & processing	4
	6.9 Sensor array applications of compressive sensing	18
	6.10 Fusion techniques for big data applications	3
	6.11 Other applications of SAM signal processing	16

Member Diversity and Election

- How to recruit good members from government labs/industry, Region 10 and female members?
- Shall we actively recruit members with microphone array background?
- Election process (2 step approach)
 - Step1: vote on candidates in non-under-represented groups only
 - Step2: vote on down selected candidates from Step1 with candidates from under-represented groups

Award Nomination Selection Process

- Demanding too much from members?

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Award Nomination Selection Process

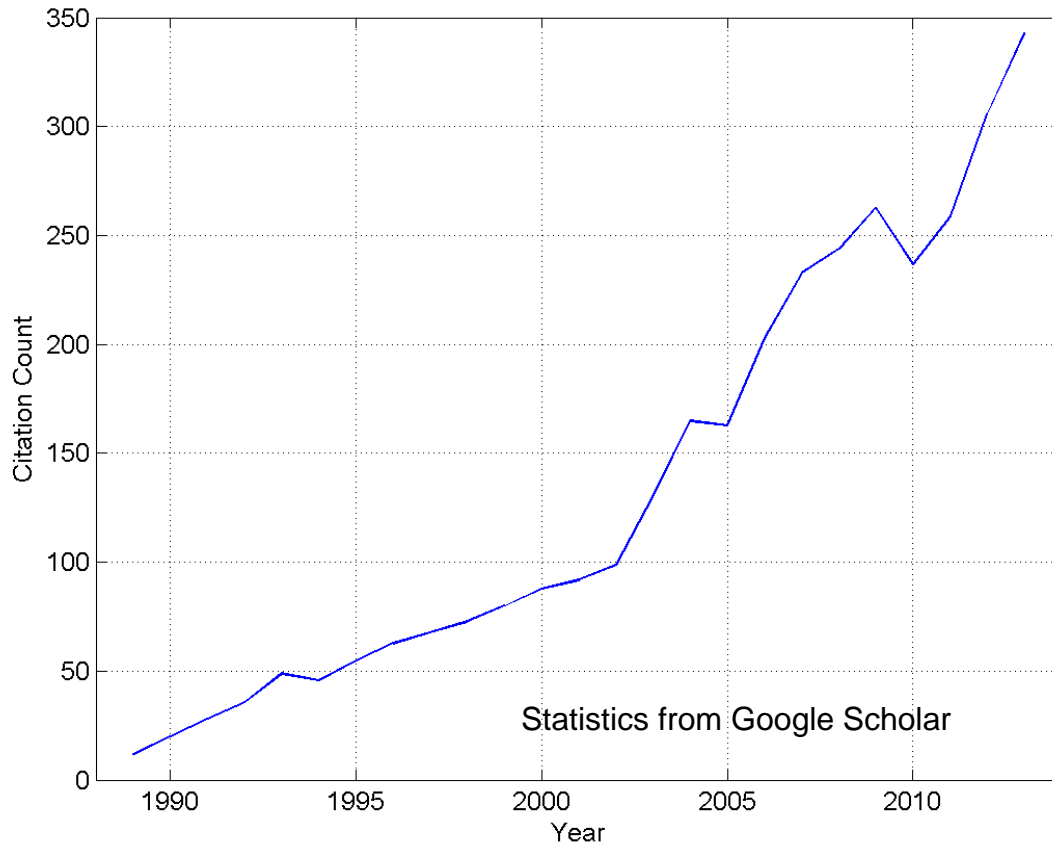
- Demanding too much from members?
- Focus on one year only?
- How to handle nomination candidates from members?
- Suggestion for improvement?
 - Do not nominate paper candidates written by authors who has received paper awards within the last three years
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- New Awards:
 - Overview Paper Award
 - Sustained Impact Paper Award

SIPA Nomination Candidate

- R. Roy and T. Kailath, "ESPRIT-estimation of signal parameters via rotational invariance techniques," IEEE T-SP, vol. 37, pp. 984-995, Jul. 1989



Number of Citations:

- IEEE: 1078
- Scopus: 1925
- GoogleScholar: 3512
- Patent: 27

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- Anything we can offer to associate members?

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- Do we have enough affiliate members?

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- Any involvement/incentive we can offer to affiliate members?

Workshop

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- How to handle invited session papers?

Workshop

- IEEE SPS fixes conference paper acceptance rate to 45% +/- 3%
- Substantial deviation requires approval from SPS conference board
- The target acceptance rate applies to normal submissions only (not invited papers)