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

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

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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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>SAM-APPL</td>
<td>Applications of sensor &amp; array multichannel processing</td>
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<td>SAM-BEAM</td>
<td>Beamforming</td>
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<td>SAM-CALB</td>
<td>Array calibration</td>
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<td><strong>SAM-CSSM</strong></td>
<td>Compressed sensing and sparse modeling</td>
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<td>SAM-DOAE</td>
<td>Direction of arrival estimation and source localization</td>
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<td>SAM-GSSP</td>
<td>Geophysical and seismic signal processing</td>
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<td>SAM-IMGA</td>
<td>Imaging with array data</td>
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<td>SAM-MCHA</td>
<td>Multichannel processing</td>
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<td>SAM-NWAV</td>
<td>Non-wave based array processing</td>
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<td>SAM-PERF</td>
<td>Performance analysis</td>
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<td>SAM-RADR</td>
<td>Radar signal processing</td>
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<td>SAM-SDET</td>
<td>Source detection</td>
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<td>SAM-SENS</td>
<td>Remote sensing of the environment</td>
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<td>SAM-SONR</td>
<td>Sonar signal processing</td>
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<tr>
<td>SAM-STAP</td>
<td>Space-time adaptive methods</td>
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<tr>
<td>SAM-SYAM</td>
<td>Synthetic aperture methods</td>
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<tr>
<td><strong>SAM-TNSR</strong></td>
<td>Tensor-based signal processing</td>
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</table>
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:

<table>
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<tr>
<th>Grade</th>
<th>Fellow</th>
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• Geographic Distribution:

<table>
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<th>Region</th>
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<td>3</td>
<td>1</td>
<td>19</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

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 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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