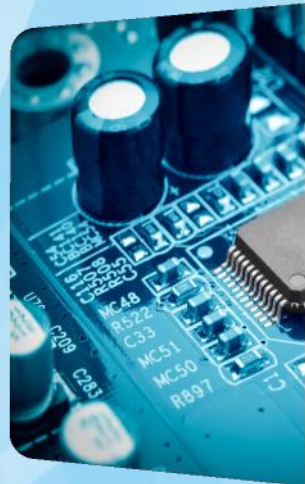
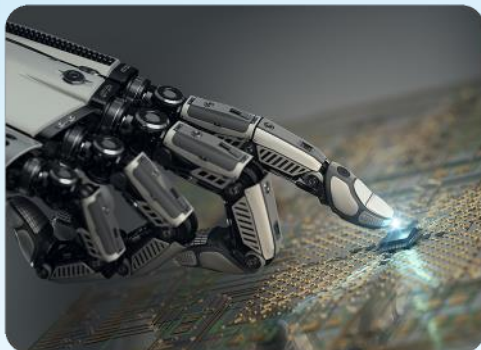




A Brief Overview

IEEE Signal Processing Society

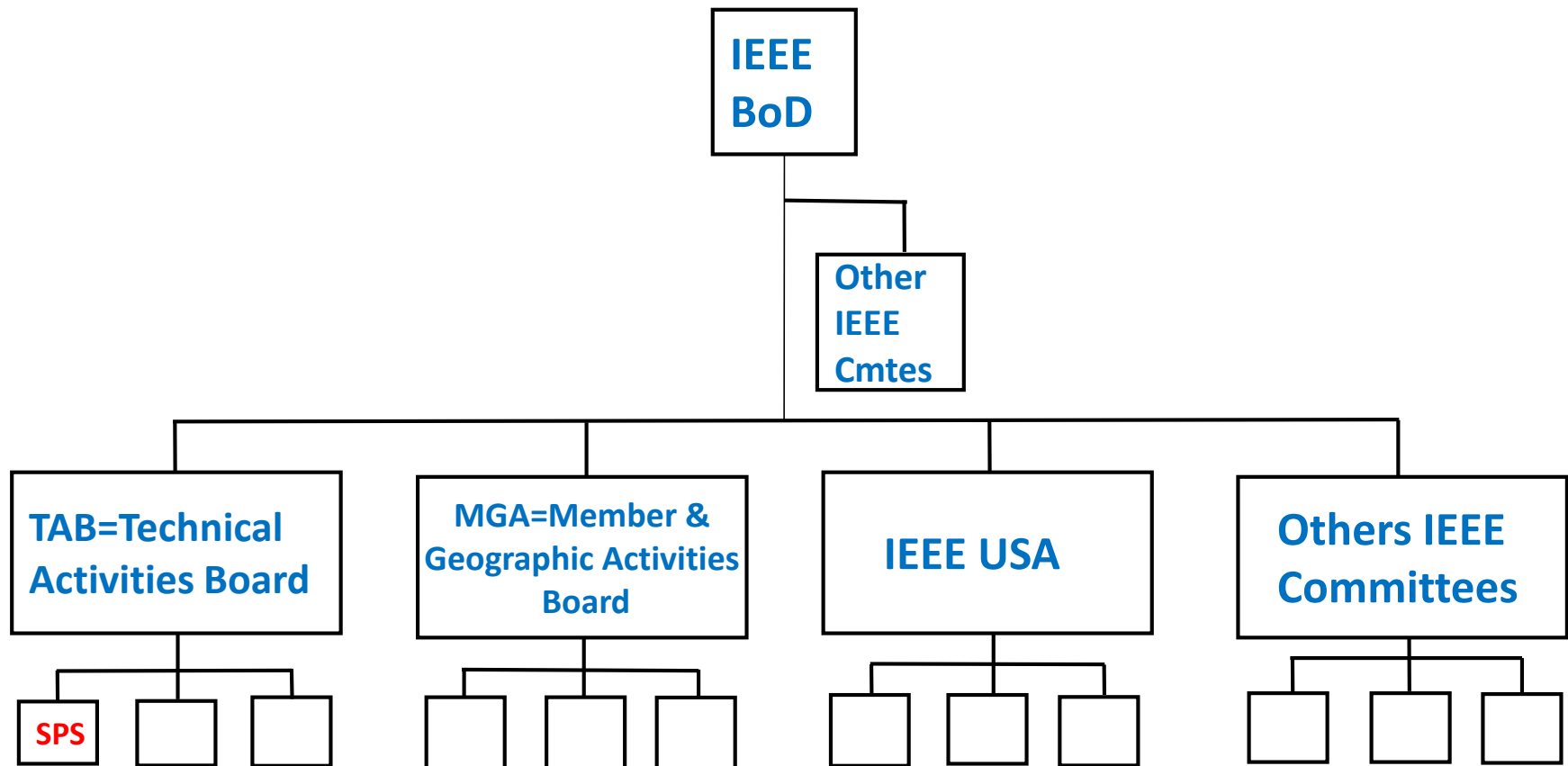
Table of Contents

- ▶ Overview of IEEE and SP Society
- ▶ SPS's field of interest, mission statement, vision statement
- ▶ SPS's activities
- ▶ SPS's revenue and expense streams
- ▶ SPS's Recent Initiatives

- ▶ For more information ...

The IEEE

a simplified view



IEEE is the parent organization. The Signal Processing Society reports directly to the Technical Activities Board. The Vice President-Technical Activities represents the Societies/Council on the IEEE Board of Directors.

TAB - Technical Activities Board

- **Represents the Societies and Councils to the IEEE Board of Directors**
- **Develops policy for Societies and Councils**
- **Provides support and guidance to Societies and Councils**
- **Monitors operation of Societies and Councils:**
 - Society and publication reviews
 - Approves Society budgets
 - Approves Society field of interest statements
 - Approves new publications
 - Approves changes in publications (title, FOI, etc.)
- **Voting members of TAB include:**
 - 45 society and council presidents
 - 10 division directors
 - 7 other officers/committee chairs

SPS as Part of TAB and IEEE

- ▶ SPS is in Division IX (Alex Acero, Director)
 - SP, AES, GRS, IT, ITS, OCE, RFIC and VT
- ▶ SPS has high stature in TAB
 - 1st Society (SP-01)
 - 4th largest Society in membership
 - 2nd largest Society in # publications
 - 3rd largest Society in # meetings
- ▶ SPS has friends in high places IEEE
 - IEEE President: Jose' M.F. Moura
 - TAB Vice President: K.J. Ray Liu
 - TAB Division IX Director (2018-19): Alex Acero

MGA - Member & Geographic Activities Board

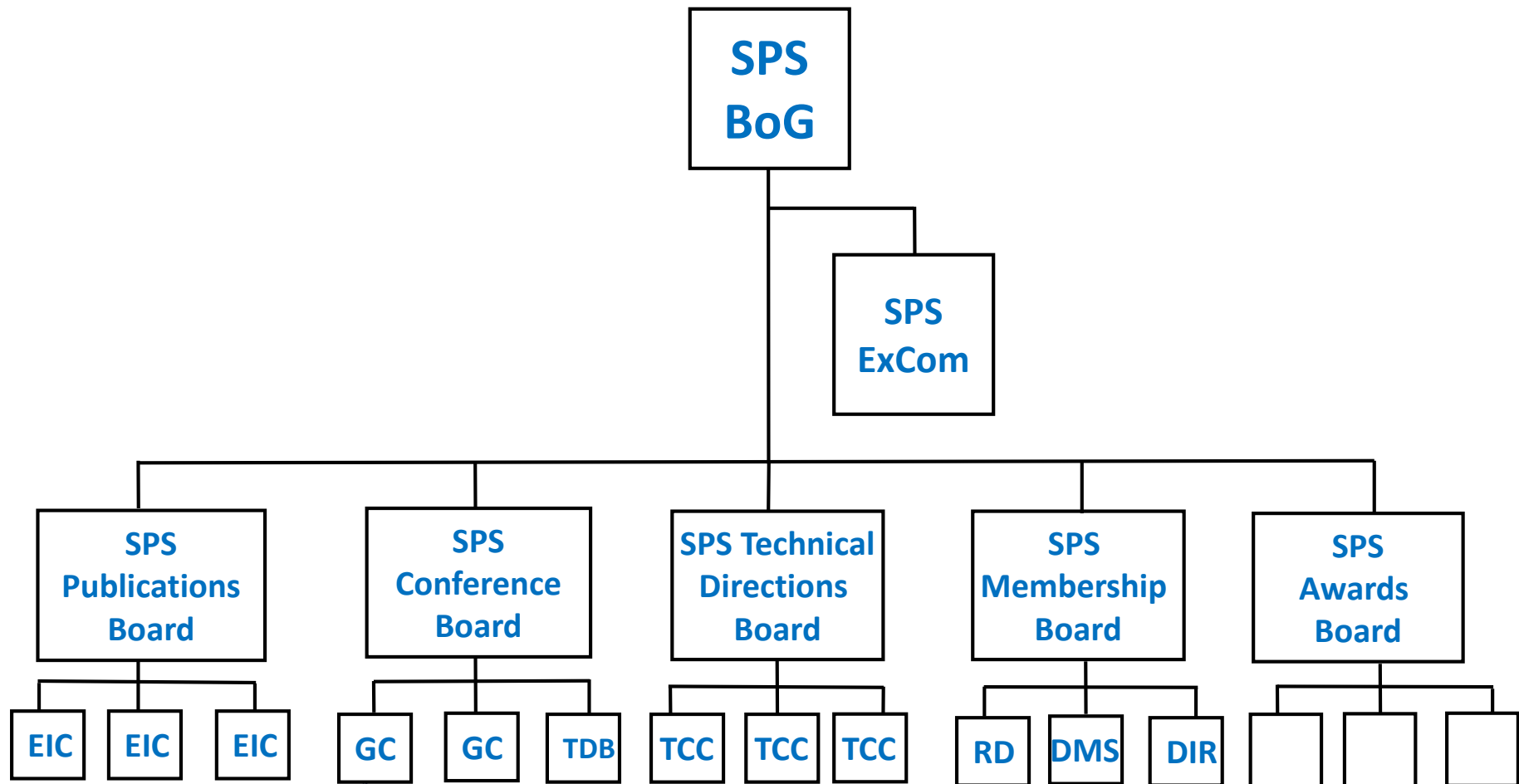
- Region 1: Northeastern U.S
- Region 2: Eastern U.S.
- Region 3: Southeastern U.S.
- Region 4: Central U.S.
- Region 5: Southwestern U.S.
- Region 6: Western U.S.

- Region 7: Canada
- Region 8: Europe, the Middle East, Africa
- Region 9: Latin America
- Region 10: Asia and the Pacific Rim

Approximately 63% of all IEEE SPS members are outside Regions 1-6.

IEEE Signal Processing Society

simplified view



IEEE Signal Processing Society

Governance – the BoG

- The Board of Governors (BoG) sets policy for the Signal Processing Society. (So all bylaw changes must be approved by the BoG). However, SPS bylaws are subject to policy decisions of IEEE TAB and the IEEE BoD.
- Often, policy for operation of the Signal Processing Society is recorded in the SPS Bylaws, which are listed in the Volunteer Directory and on the Society's website.
- SPS also has codified policies and procedures that are recorded in our Policy and Procedures Manual; these are also listed in the Volunteer Directory and on the Society's website.

IEEE Signal Processing Society

Governance – the BoG

- **The BoG normally meets twice a year:**
 - at ICASSP in Spring
 - at ICIP in Fall (annual meeting).
- **A Long-Range Planning retreat is convened by each President-Elect.**
- **The SPS President serves as moderator at BoG meetings.**
- **The Society follows Robert's Rules of Order.**
- **Non-controversial items are bundled together in a “consent agenda” which is approved as a whole.**
- **The BoG can conduct business by e-mail ballot; an affirmative vote of a majority of all the voting members is required to approve the action.**

IEEE Signal Processing Society

Governance – the Officers

- **President (Ali H. Sayed) – 2 year term**
 - chairs BoG and ExCom, a member of TAB
- **President-Elect (Ahmed Tewfik) – 2 year term**
 - chairs Long Range Planning and Implementation Committee and TC Review Committee, prepares budgets and serves as BoG Secretary
- **VP-Membership (Nikos Sidiropoulos) – 3 year term**
 - chairs Membership Board and Chapters Review Committee
- **VP-Conferences (Fernando Pereira) – 3 year term**
 - chairs Conference Board and its Executive Subcommittee
- **VP-Publications (Sergios Theodoridis) – 3 year term**
 - chairs Publications Board
- **VP-Technical Directions (Tülay Adalı) – 3 year term**
 - chairs Technical Directions Board and interfaces with our TC's

IEEE Signal Processing Society

SP Society – BoG Members-at-Large (MAL)

- Are elected by the membership
- Attend BoG meetings and participate
- General expectations include:
 - Represent the membership of the SP Society
 - Think long term
 - Think strategic
 - Accept volunteer involvements beyond MAL
- Current MAL (end-of-term)
 - Abeer A. H. Alwan (2019)
 - Antonio Ortega (2019)
 - Beatrice Pesquet-Popescu (2019)
 - Shoji Makino (2020)
 - Athina Petropulu (2020)
 - Paris Smaragdis (2020)
 - Douglas O'Shaughnessy (2021)
 - Ana Isabel Pérez-Neira (2021)
 - Zhi (Gerry) Tian (2021)

IEEE Signal Processing Society

SP Society – BoG Regional Directors-at-Large / Awards

- **Current Regional Directors-at-Large, Non-voting Members (end-of-term):**
 - Bhuvana Ramabhadran – Regions 1-6 (2020)
 - Eduardo A.B. Da Silva – Regions 7-9 (2019)
 - Cédric Richard – Region 8 (2020)
 - K.V.S. Hari – Region 10 (2019)

- **Award Board Chair, Non-voting Member (end-of-term):**
 - Rabab Ward (2021)

IEEE Signal Processing Society

Governance – the ExCom (meets 3X/yr & mthly conf calls)

- **The BoG generally reserves policy decisions to itself, but delegates operational decisions to the SPS ExCom**
 - the budget is considered a policy matter, although it is sometimes delegated to the ExCom
 - page budgets, subscription fees are part of the budget
 - any spending outside budget is an operational issue, subject to approval by ExCom (anything that entails supplemental funding needs be approved by the ExCom)
- **The ExCom is comprised of:**
 - the President and President-Elect
 - the four VPs (Membership, Conferences, Publications, and Technical Directions)
 - the Executive Director (ex-officio)

IEEE Signal Processing Society

SPS Staff

Executive Director: Rich Baseil

▪ **Administration**

- **Senior Manager, Operations: Theresa Argiropoulos**
 - **Deborah Blazek**, Administrator, Committees & Governance
 - **George Olekson**, Administrative Assistant, Operations
 - **Jessica Perry**, Membership Communications & Experience Specialist
 - **Jaqueline Rash**, Membership Assistant

▪ **Publications**

- **Senior Manager, Publications and Education Strategy & Services: William Colacchio**
 - **Rupal Bhatt**, Web Administrator
 - **Adrienne Fisher**, Publications Coordinator
 - **Kathy Jackson**, Publications Coordinator
 - **Rebecca Wollman**, Publications Administrator

▪ **Conferences**

- **Senior Manager, Conference Strategy & Services: Caroline Johnson**
 - **Nicole Allen**, Conference Administrator
 - **Samantha Walter**, Conference Coordinator

The IEEE Signal Processing Society

SPS Staff - Executive Director

▪ Executive Director: Rich Baseil

Has strategic and administrative responsibility for the Society's operations, including, but not limited to:

- Responsible for all aspects of the Society's staff operations and property. Directly supervises the senior staff.
- Facilitates the activities of the Board of Governors and its major boards and committees.
- Advises the leadership and volunteers on matters of policy, law, strategy, and general business practice.
- Recommends new technical meetings, practices or services.
- Represents Society staff to IEEE; represents Society to other IEEE organizations, as well as organizations outside IEEE.
- An ex-officio, non-voting member of all Society Boards and Committees.

IEEE Signal Processing Society

SPS Administration Staff

▪Senior Manager, Operations: Theresa Argiropoulos

- Facilitates the Vice President-Membership, the Vice President-Technical Directions, Past President and Award Board Chair in running the operations and management of their activities and executing the decisions and policies of the corresponding Board, ExCom, and Board of Governors.
- Facilitates strategies for the Society's operations and its associated Boards, and manages the daily activities of SPS operations staff.
- Manages the daily finances of the Society, forecasting, and facilitation of the annual budget and works directly with the President-Elect on financial matters.
- Manages collection of overlength pages charges.
- Manages the governance activities including meeting notices, meeting schedules, agenda preparation, minutes, action/information items for the major Boards.
- Works with the Officers to prepare the agendas for relevant meetings and helps develop appropriate strategy for items.
- Supports the Long-Range and Strategic Planning activities.
- Drafts bylaws and policy matters and provides rationale for items.
- Manages the Officer, Member and Regional Director-at-Large and board/committee election activities.
- Manages the website development and creation of content.
- Manages the activities and approval of Distinguished Lecturer, Distinguished Industry Speaker and Chapter expenses.
- Manages the TC Review process.

IEEE Signal Processing Society

SPS Administration Staff

▪Administrator, Committees & Governance: Deborah Blazek

- Supports the governance activities including production of meeting notices, agendas, minutes and action/information items for major Boards.
- Preparation of administrative meeting schedule for conferences.
- Supports award and DL/DIS related activities.
- Preparation of awards plaques/certificates/checks.
- Processes expense reports.
- Administration of e-mail aliases.

▪Administrative Assistant, Operations: George Olekson

- Collection of overlength page charges.
- Organizes communications with all Society Members and new Members.
- Organizes Chapters activities and the Chapter Certification Program.
- Organizes all conference calls.
- Creation of the Volunteer Directory.
- Certifies volunteer member credentials to enable service.
- Organizes information on Society appointed liaisons/representatives/MOUs.

IEEE Signal Processing Society

SPS Administration Staff

▪ **Membership Communications & Experience Specialist: Jessica Perry**

- Supports the development and fulfillment of the Society's communications scheme.
- Supports member recruitment, retention, and engagement activities.
- Markets Society products and services to members and non-members.
- Prepares membership statistics and subscription reports.
- Promotes the Society's activities and events.

▪ **Membership Assistant: Jaqueline Rash**

- Supports the Membership Board and its Committees/Subcommittees activities.
- Supports Membership Board curated events.

IEEE Signal Processing Society

SPS Conference Staff

▪Senior Manager, Conference Strategy & Services: Caroline Johnson

- Supports the Vice President-Conferences and Conference Board
- Prepare the agenda for all Conference Board meetings
- Executes the decisions and policies of the Conference Board, ExCom, and Board of Governors related to SPS Conferences and Technical Meetings
- Assists in strategic projects and new and enhanced service offerings
- Facilitates strategic and brainstorming sessions regarding the conference portfolio and the future of the business
- Manages daily activities of SPS conference staff.
- Executes projects, decisions and policies of the Conference Board, ExCom, and Board of Governors related to Conferences/Meetings
- Partners with Conference Organizing Committees to facilitate all conferences and workshops from inception through audit, including all society and IEEE required items and checkpoints.
- Develops and maintains guidelines for the Society's conferences.
- Supports activity and partnerships with conference co-sponsors and steering committees as well as TCs overseeing the technical program quality.
- Vendor management and assistance in identifying conference vendors for services.
- Works with IEEE MCE and other external staff partners including the Publications, Xplore, IT and marketing teams on projects and goals.

IEEE Signal Processing Society

SPS Conference Staff

■ Conference Administrator: Nicole Allen

- Lead for ICASSP and ICIP, the two flagship conferences of SPS, as well as several workshops.
- Tasks include proposal facilitation, sponsorship review, historical data reporting, conference support throughout the planning, including contracts, budgets, banking, and general oversight and support.
- Assists volunteer organizers to assure that all IEEE and Society administrative requirements are complete and executed in a timely manner, including notification of intent to bid, preliminary, amended, and final budgets; preparation and dissemination of calls for papers; submission of contract approval; payment/ repayment of loans; opening/closing of bank accounts; facilitation of timely audit and closing, review of conferences to ensure appropriate milestones and/or deadlines are adhered to.
- Special projects to develop improvements through tools and resources for the conference organizers.

IEEE Signal Processing Society

SPS Conference Staff

▪Conference Coordinator: Samantha Walter

- Lead for GlobalSIP, ISBI and logistics for the society board and committee meetings as well as several workshops.
- Tasks include proposal facilitation, sponsorship review, historical data reporting, conference support throughout the planning, including contracts, budgets, banking, and general oversight and support.
- Assists volunteer organizers to assure that all IEEE and Society administrative requirements are complete and executed in a timely manner, including notification of intent to bid, preliminary, amended, and final budgets; preparation and dissemination of calls for papers; submission of contract approval; payment/ repayment of loans; opening/closing of bank accounts; facilitation of timely audit and closing, review of conferences to ensure appropriate milestones and/or deadlines are adhered to.
- Special projects to develop improvements through tools and resources for the conference organizers.

IEEE Signal Processing Society

SPS Conference Staff

▪ Senior Manager, Publication and Education Strategy & Services: William Colacchio

- Supports the Vice President-Publications; manages the SPS Publications operations; and executes the decisions and policies of the Publications Board, ExCom, and Board of Governors related to SPS Publications.
- Facilitates strategies and manages daily activities of SPS publication staff.
- Works with the VP-Publications to prepare the agenda for all Publication Board meetings and helps develop appropriate strategy for items.
- Develops and maintains guidelines for the Society's publications.
- Supports the activities of the IEEE Transactions on Multimedia Steering Committee, IEEE Transactions on Computational Imaging and the IEEE Transactions on Signal and Information Processing over Networks, as well as co-sponsored publications.
- Assists the VP-Publications and Editors-in-Chief regarding policies, page budget issues, production schedules and performance reports, etc.
- Assists the VP-Publications and Editors-in-Chief in annual page budgets preparations.
- Maintains documentation relevant to issues of plagiarism and author misconduct.
- Develops the strategy formulation for the Society's educational offerings.

IEEE Signal Processing Society

SPS Publications Staff

■ Publication Administrator, Rebecca Wollman

- Oversees/manages manuscript submission process for Signal Processing Magazine (SPM) from initial submission to timely transfer of final files to production; primary resource and liaison for volunteer leaders, associate editors, authors, reviewers and staff for designated journal; EIC support for SPM; coordinates administrative daily activities and assists the EICs for the Signal Processing Letters. Publication guidelines.
- Liaison for ScholarOne (S1) providing support to EICs, authors and reviewers; Works with S1 support staff to resolve issues and ensure necessary changes are updated; Trains staff and volunteers regarding new S1 releases and creates custom reporting.
- Work on ad hoc projects as needed in support of the Publications Board, VP-Publications, or Senior Managers of Publications and Conferences.
- Support of VP-Publications on open action items and prepare data, reports, agenda for the Publications Board Meetings and VP-Publications.
- Ensures content on SPS publications website are up-to-date and accurate.

IEEE Signal Processing Society

SPS Publications Staff

■ Publication Coordinators

- **Adrienne Fisher**

- Coordinates administrative daily activities and assists the EICs for the Transactions on Multimedia and Transactions on Signal Processing and Transactions on Computational Imaging.
- Supports educational programs such as webinars and short-course modules; training in Webex hosting, recording, editing, and prepare material for posting on the SPS Resource Center.

- **Kathy Jackson**

- Coordinates administrative daily activities and assists the EICs for the Transactions on Image Processing, Transactions on Audio, Speech, and Language Processing and Content Gazette.
- Supports educational programs such as webinars and short-course modules; training in Webex hosting, recording, editing, and prepare material for posting on the SPS Resource Center.

IEEE Signal Processing Society

SPS Publications Staff

■ Web Administrator: Rupal Bhatt

- Provides day-to-day content, quality assurance, and technical solution support for the Signal Processing Society newsletter, website, websites for managed joint products/services, as well as volunteers.
- Arranges all e-bursts to Society Members
- Handles content upload for the Resource Center.
- Assists SigPort team.

IEEE Signal Processing Society What We Are

■ Volunteer Organization

Serve our members and the community at large:

- Meetings – high quality, provide networking opportunities.
- Publications – high quality and fast publication.
- Make our technical areas visible.
- Educate our members in technical matters related to SPS.

IEEE Signal Processing Society

The First IEEE Society *

Early History of **Society 01**

- 1948 began as the IRE Professional Group on Audio
- 1953 IRE Transactions on Audio
- 1963 IEEE formed from IRE and AIEE, Professional Group on Audio becomes part of the IEEE
- 1965 renamed the Group on Audio and Electroacoustics
IEEE Transactions on Audio and Electroacoustics
- 1974 renamed Acoustics, Speech and Signal Processing Group
- 1976 first IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
- 1984 first publication of IEEE ASSP Magazine

* *Sixty Years of Signal Processing, May 2008*

IEEE Signal Processing Society

The First IEEE Society *

Later History of **Society 01**

- 1991 IEEE ASSP Magazine becomes IEEE Signal Processing Magazine
- 1991 IEEE Transactions on ASSP becomes IEEE Transactions on Signal Processing
- 1992 ASSP Society becomes the Signal Processing Society
- 1992 first publication of IEEE Trans. on Image Processing
- 1993 first publication of IEEE Trans. on Speech and Audio Processing
- 1993 Society Executive Office established
- 1994 first publication of IEEE Signal Processing Letters
- 1994 first International Conference on Image Processing (ICIP)
- 2005 first publication of IEEE Trans. on Information Forensics and Security
- 2006 launch of IEEE Journal of Selected Topics in Signal Processing
- 2009 launch of the IEEE Content Gazette
- 2015 launch of the IEEE Transactions on Computational Imaging
- 2015 launch of the IEEE Transactions on Signal and Information Processing over Networks

IEEE SPS Field of Interest

Signal processing is the enabling technology for the generation, transformation, extraction, and interpretation of information. It comprises the theory, algorithms with associated architectures and implementations, and applications related to processing information contained in many different formats broadly designated as signals. Signal processing uses mathematical, statistical, computational, heuristic, and/or linguistic representations, formalisms, modeling techniques and algorithms for generating, transforming, transmitting, and learning from signals.

(Approved by TAB in 2010)

IEEE SPS Mission Statement

The Signal Processing Society is an international organization whose purpose is to:

- advance and disseminate state-of-the-art scientific information and resources
- educate the signal processing community
- provide a venue for people to interact and exchange ideas

(Adopted by SPS Board of Governors 11 September 2003)

IEEE SPS Vision Statement

The Signal Processing Society is a dynamic organization that is the preeminent source of signal processing information and resources to a global community. We do this by:

- being a one-stop source of signal processing resources
- providing a variety of high quality resources to a variety of users in formats customized to their interests
- adapting to a rapidly changing technical community
- being intimately involved in the education of signal processing professionals at all levels

(Adopted by SPS Board of Governors 11 September 2003)

The IEEE Signal Processing Society

Budget and Finance

	2010	2011	2012	2013	2014	2015	2016	2017	2018B	2019B
Income	8.32 M	9.05 M	8.96 M	10.39 M	9.18 M	9.08 M	9.63 M	10.35 M	9.76 M	8.87 M
Expense w/o Investment Income	8.32 M	9.05 M	8.96 M	9.44 M	7.93 M	8.01 M	8.93 M	8.90 M	9.61 M	8.83 M
Operation Surplus	607.5 K	202.3 K	124 K	1.02 M	1.38 M	1.44 M	1.03 M	1.79 M	145.5. K	34.5 K
IEEE Invest Income minus Tax	913 K	-1.43 M	1.10 M	3.47 M	-28.4K	-1.08 M	1.19 M	3.95 M		
Reserves	15.41 M	14.18 M	15.65 M	19.94 M	21.16 M	21.14 M	20.74 M	26.14 M		

SPS Finances

Revenue Streams

■ Products

• Periodicals

- Transactions (5 sole + 11 financially co-sponsored)
- Magazine (1) augmented by e-newsletter
- Letters (1)

• Meetings

- Conferences/Symposia (4 sole + 2 co-sponsored)
- Workshops (14 sole + 4 co-sponsored)

• Electronic media

- Content Gazette

■ Investment returns

SPS Finances

Expense Streams

▪ Providing services to larger community

- SPS Web pages and publicity
- SPS Distinguished Lecture/DIS Program & IEEE History Center
- SPS sponsorship of Society and IEEE awards
- Tools/services to streamline conference and pub operations
- Webinars

▪ Funding SPS initiatives

- New initiatives: SP Visibility Campaign, VIP Cup, Industry Outreach, Chapter Development, Distinguished Industry Speaker Program, Publication and Conference Initiatives, etc.
- Streamlining conference organization
- Expanding our membership benefits, \$1 Student Membership starting 2019

▪ Operational and administrative expenses

- SPS Staff Office
- Travel assistance for volunteers on SPS Boards
- ICASSP/ICIP/GlobalSIP Travel Grants

▪ IEEE and TAB Infrastructure costs

SPS Finances

- **Annual operating budget:** approximately \$8.87 M
- **Healthy reserves:** approximately \$26.14 M
- **IEEE Infrastructure Expense:** \$1,434 M in 2019 budget

SPS Publications

Wholly-owned Publications of the Signal Processing Society:

- IEEE Journal of Selected Topics in Signal Processing
- IEEE Signal Processing Magazine
- IEEE Signal Processing Letters
- IEEE Transactions on Signal Processing
- IEEE Transactions on Image Processing
- IEEE Transactions on Audio, Speech, and Language Processing
- IEEE Transactions on Information Forensics and Security
- IEEE Content Gazette

SPS Publications

Co-Sponsored Publications

Financially co-sponsored publications of the Signal Processing Society :

- IEEE Journal on Biomedical and Health Informatics (15%)
- IEEE Transactions on Big Data (7.5%)
- IEEE Transactions on Cognitive Communications and Networking (20%)
- IEEE Transactions on Computational Imaging (70%)
- IEEE Transactions on Green Communications and Networking (10%)
- IEEE Transactions on Medical Imaging (35%)
- IEEE Transactions on Mobile Computing (20%)
- IEEE Transactions on Multimedia (50%)
- IEEE Transactions on Signal and Information Processing over Networks (70%)
- IEEE Trans. on Wireless Communications (varies by subscriptions)
- IEEE Wireless Communications Letters (30%)

SPS Publications

Co-Sponsored Publications

Technically co-sponsored publications of the Signal Processing Society:

- IEEE Computing in Science and Engineering
- IEEE Internet of Things Journal
- IEEE MultiMedia Magazine
- IEEE Reviews in Biomedical Engineering
- IEEE RFID Virtual Journal
- IEEE Security & Privacy Magazine
- IEEE Sensors Journal
- IEEE Transactions on Affective Computing
- IEEE Transactions on Computational Social Systems
- IEEE Transactions on Molecular, Biological, and Multi-Scale Communications
- IEEE Transactions on Network Science & Engineering
- IEEE Transactions on Smart Grid

SPS Conferences

Wholly-Owned Annual Conferences of the Signal Processing Society:

- IEEE International Conference on Acoustics, Speech, and Signal Processing
- IEEE International Conference on Image Processing

Co-sponsored Annual Conferences of the Signal Processing Society:

- IEEE International Conference on Multimedia & Expo (25%)
- IEEE International Symposium on Biomedical Imaging (50%)

Note: Because IEEE is a not-for-profit, 501(c)(3) organization, it cannot enter into shared business arrangements with for-profit entities. This prohibition extends to the relationships of the Societies with for-profit companies or other types of for-profit entities.

SPS Conferences

Workshops

Wholly Owned Annual Workshops of the Signal Processing Society:

- IEEE Workshop on Data Science
- IEEE Workshop on Information Forensics
- IEEE Workshop on Machine Learning for Signal Processing
- IEEE Workshop on Multimedia Signal Processing
- IEEE Workshop on Signal Processing Advances in Wireless Communications
- IEEE Workshop on Statistical Signal Processing

Wholly Owned Bi-Annual Workshops of the Signal Processing Society:

- IEEE Workshop on Applications of Signal Processing to Audio and Acoustics
- IEEE Workshop on Automatic Speech Recognition & Understanding
- IEEE Workshop on Computational Advances in Multi-Sensor Adaptive Processing
- IEEE Sensor Array and Multichannel Signal Processing Workshop
- IEEE Spoken Language Technology Workshop
- IEEE Workshop on Image, Video, and Multimedia Signal Processing

SPS Conferences

Workshops

Co-sponsored Annual Workshops of the Signal Processing Society:

- IEEE Conference on Advance Video and Signal-Based Surveillance (50%)
- ACM/IEEE International Conference on Information Processing in Sensor Networks (50%)
- IEEE International Symposium on Signal Processing and Information Technology (50%)
- IEEE Workshop on Signal Processing Systems (50%)

Technical Co-sponsorship of the Signal Processing Society:

- The Society technically co-sponsors between 9-15 conferences and workshops each year.

Note: Because IEEE is a not-for-profit, 501(c)(3) organization, it cannot enter into shared business arrangements with for-profit entities. This prohibition extends to the relationships of the Societies with for-profit companies or other types of for-profit entities.

SPS Technical Committees

Technical Committees of the Signal Processing Society:

- Audio and Electroacoustics
- Bio Imaging and Signal Processing
- Computational Imaging
- Design and Implementation of Signal Processing Systems
- Image, Video and Multidimensional Signal Processing
- Information Forensics and Security
- Machine Learning for Signal Processing
- Multimedia Signal Processing
- Sensor Array and Multichannel
- Signal Processing for Communications and Networking
- Signal Processing Theory and Methods
- Speech and Language Processing
- Industry DSP Technology (standing committee)

SPS Special Interest Groups

Special Interest Groups (SIG) are provisional groups that are created to quickly address emerging technical areas. Special Interest Groups will have a life-span of up to three years. They will follow the same composition structure as a Technical Committee and will also function in the same way.

The current Special Interest Groups are:

- Big Data Special Interest Group
- Internet of Things Special Interest Group

SPS Megatrends

A Megatrend is a “hot” technical direction area that is relevant to the signal processing committee and cuts across many of the Society’s Technical Committee.

Currently, there are two Megatrends, which are:

- SPS Data Science Initiative
- SPS Autonomous Systems Initiative.

SPS Awards

IEEE Level Awards

- IEEE Jack S. Kilby Signal Processing Medal
- IEEE James L. Flanagan Speech and Audio Processing Award
- IEEE Fourier Award for Signal Processing

SPS Awards

- Best Paper Award
- Best PhD Dissertation Awards (pending approval by TAB)
- Carl Friedrich Gauss Education Award
- Chapter of the Year Award
- Claude Shannon-Harry Nyquist Technical Achievement Award
- Conference Best Paper Award for Industry
- Donald G. Fink Overview Paper Award
- Early Career Technical Achievement Award (new 2019)
- Industrial Leader Award
- Industrial Innovation Award
- Leo L. Baranek Meritorious Service Award
- Meritorious Regional/Chapter Service Award (new 2018)
- Norbert Wiener Society Award
- Regional Distinguished Teacher Award (pending approval by TAB)
- Signal Processing Letters Best Paper Award
- Signal Processing Magazine Best Column Award
- Signal Processing Magazine Best Paper Award
- Sustained Impact Paper Award
- Young Author Best Paper Award

SPS Chapters

- 13 Active chapters in Region 1
 - 10 Active chapters in Region 2
 - 9 Active chapters in Region 3
 - 7 Active chapters in Region 4
 - 5 Active chapters in Region 5
 - 14 Active chapters in Region 6

 - 10 Active chapters in Region 7
 - 39 Active chapters in Region 8
 - 16 Active chapters in Region 9
 - 66 Active chapters in Region 10
- The current list of SPS Chapters can be found on the web at:
<http://signalprocessingsociety.org/sps-chapters>

SPS Chapters

Chapter Support:

- SPS provides annual support up to \$500 per Chapter for coffee breaks or other small social gathering expenses.
- SPS provides an annual allotment up to \$3,500 per Chapter for use of the Society's Distinguished Lecturer (DL) and Distinguished Industry Speaker (DIS) Programs. The annual allotment can be used toward SPS appointed DL/DIS Lecturers or pre-approved invited lecturers.
- **Member-Driven Initiatives:** SPS will provide up to \$10K in 2018 for Society members, Chapters and Committees to submit proposals for funding activities. All proposals must include the involvement of the local Chapter to encourage geographic development. Allocation of funds will be competitive. Full details can be found at <https://signalprocessingsociety.org/get-involved/member-driven-initiatives>.

SPS Distinguished Lecturer (DL) and Distinguished Industry Speaker (DIS) Programs

- SPS provides financial support to chapters to support talks by visiting lectures and SPS DL and DIS Lecturers.
- Each year, up to ten (10) technically diverse and geographically dispersed individuals shall serve as SPS DLs and DISs. The formal term of appointment is two calendar years with five (5) individuals appointed each year.
- Information on the SPS DL Program can be found on the web at:
<http://signalprocessingsociety.org/professional-development/distinguished-lecturer-program>.
- Information on the SPS DIS Program can be found on the web at:
<https://signalprocessingsociety.org/professional-development/distinguished-industry-speaker-program>

SPS Recent Initiatives

- SP Visibility Campaign
- Resource Center
- SigPort
- SP Cup, VIP Cup, and Student Career Luncheon
- Women in Signal Processing and Young Professional Events
- Member-Driven Initiatives
- Chapter of the Year Award and Chapter Certification Program
- Webinars
- New awards created in the following areas: Industry, Early Career Technical Achievement, Distinguished Teacher, Best PhD Dissertation, and Meritorious Regional/Chapter Service
- Distinguished Industry Speakers Program
- Creation of Special Interest Groups – Big Data and Internet of Things
- Creation of Megatrend Initiatives: Data Science and Autonomous Systems
- Creation of Challenges and Data Collection

Challenges Ahead

■ Publication

- Reducing revenues due to IEL distribution
- Further improve quality, impact factors
- Open Access

■ Membership

- Create more values and benefits
- Outreach to emerging regions and segments of membership

■ Finance

- More services and programs – more expenses!
- Create more new products and models?

Challenges Ahead

- \$537K is available for new/existing initiatives, plus additional funds are available via the 50% spending rule.
 - Need to focus on initiatives that invest in our future.
- Individual Conference Revenue continues to vary greatly by location and organizing committee each year.
 - Fluctuations create difficulty with conference budget review and society forecasting.
 - Finalizing a new Conference Budget template to help with more realistic budget and forecasting.

Challenges Ahead

■ Continuing Education

- Meeting with Education Committee on a monthly basis
- Proposed honorarium of US\$1,000 for 5-hour course; \$1,500 for 10-hour course. (More than one speaker possible per course, with honorarium split)
- Letter to Volunteers to create short-course modules
- Letter to Tutorial presenters of top attended tutorials to create short-course modules
- Letter to Journal authors of top 25 most popular articles to create one-hour webinars

■ The growth in IEEE Corporate expenses (IT, Legal, Global Offices, etc.) have effectively capped Society income, since Corporate expenses are immediately subtracted from our revenue.

- We will continue to be active in TA Financial Transparency efforts and in urging movement of some corporate functions away from a flat tax model and toward a Service Center model.

For More Information

- ▶ IEEE Signal Processing Society Constitution, Bylaws and Policy and Procedures are located in the *Society Volunteer Directory* and on the Society's *website* at:
<http://signalprocessingsociety.org/volunteers/governance-documents>.