State of the Society

Presented by Min Wu
President, IEEE Signal Processing Society

ICASSP 2024 | Seoul, Korea
Welcome to ICASSP Week 2024!

A Flagship Conference of the IEEE Signal Processing Society

A Journey over 12 years of Vision, Teamwork, and Perseverance
Big Thank You to ICASSP 2024 Organizing Committee

and many more contributors ...
Big Thank You to ICASSP 2024 Organizing Committee
Celebrating Milestones

- **75th** SPS anniversary year in 2023
- Record high member# in Feb. 2024: **23,293**

SP innovators, pioneers, and current & future leaders!

IEEE members are also growing: **474 K+** in Feb. ‘24.
Student members **181 K+**; Society members **382 K+**
23K+ SPS Members

Grown **20%** from 2023 to 2024

Top 3 countries account for **60%** of SPS membership:

- **India** 5,682 (Students ~4K + GSM 377)
- **U.S.** 5,596 (S+GSM ~614)
- **China** 3,351 (S+GSM ~1600)
- **Japan** (871), **Germany** (676), **UK** (568)
- In 400-500s: **Korea** (497), **Canada**, **France**, **Italy**

<table>
<thead>
<tr>
<th>Region 1-6</th>
<th>R7 Canada</th>
<th>R8 Euro-Africa</th>
<th>R9 Latin Am</th>
<th>R10 Asia-Pacific</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>5,590</td>
<td>4,749</td>
<td>504</td>
<td>11,977</td>
<td>23,293</td>
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</tbody>
</table>
Region 10: A closer look

Top five R10 countries:
- India – *ICASSP 2025*
- China
- Japan
- Korea – *ICASSP 2024*
- Australia
Road to SPS 100: 2024 → 2048

- Envisioning the challenges and opportunities of the next 25 years
- Work together as a global community to make our shared professional home better for all
- “IEEE 2050” Vision shaped in ’22
  https://www.ieee.org/about/corporate/ieee-in-2050.html

What are our Centennial Aspirations? How to prepare/achieve?

- Aspiring size of membership; value, benefits & engagement for members
- Outcome of our roles in advancing SP as an evolving field
Strategic Vision

Aims to create an inclusive, open-minded, and collaborative environment that serves as the professional home for all members’ career development and promotes technical excellence and technological & societal impact

- **Lead**
  - in technical excellence and expand scientific knowledge in new areas
- **Increase**
  - engagement of industry & early-career members and cultivate volunteer development
- **Develop**
  - high-quality professional educational training to support life-long learning
- **Evolve**
  - our organizational structure to meet current and future challenges
- **Foster**
  - diversity, inclusion, and fairness for members & volunteers

Share your thoughts to shape our plan & actions together
Many Dimensions of diversity in our Global Community

- Gender | Ethnicity / Race
- Geographic Area | Age / CareerStage
- Career Sector | Technical Area; ...
- Tech. Flavor (theory, algorithm design, practical systems/products); ...

Events at SPS conf. and year-round committee efforts

- Micro-Mentoring | Career Fair
- WISP for Women & supporters
- Young Professionals | Entrepreneurs
- PROGRESS Academic Career Panel ...

New Fellow Search Committee (FSC) underway:
- Support promising candidates thru mentoring; improve nomination quality
- Increase # of high-quality nominations in underrepresented areas
- Longer-term career development and peer mentoring

To All IEEE Fellows in SPS: Join force to support our colleagues!
Thank you for your service!

And retiring Regional Directors and Members of Board of Governors, Editors-in-Chief, TC Chairs, past conference chairs, and many editors and committee members, as the world recovers from COVID-19.
IEEE Signal Processing Society Staff

Rich Baseil
Executive Director

Theresa Argiropoulos
Director, Operations

Caroline Johnson
Senior Manager, Conferences

Deborah Blazek, Senior Admin, Governance & Awards
George Olekson, Chapter & Operations Associate
Jessica Perry, Member Communications & Experience Specialist
Jaqueline Rash, Membership Program & Events Administrator

Alisa Abraham, Strategic Conference Manager
Nicole Allen, Senior Conference Administrator
Samantha Esposito, Conference Administrator
Dena Watkins, Marketing Analytics Manager

Rupal Bhatt, Web Administrator
Breanna Cameron, Peer Review & Educ Prog Administrator
Michelle Demydenko, Education Program Manager
Nanette Januszkievicz, Peer Review/Educ Prog Administrator
Mikaela Langdon, Peer Review/Educ Prog Administrator
Rebecca Wollman, Senior Pub Peer Review Support Specialist

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Industry Engagement

- Exploring organizational structure to facilitate **company engagement** and **career development** of industry members

- **Industry programs during the ICASSP Week 2024**
  - Industry plenary, spotlight talks & colloquia
  - Industry exhibits & workshops
  - Student job fairs and student-industry luncheon
  - Entrepreneur forum

**ICASSP 2024 Industry Program Chairs**
- Sanghoon Lee
- Jiwoo Kang
- Taewan Kim
- Shoko Araki
- Siqi Cai
- John Apostolopoulos
- Eliathamby Ambikairajah
IEEE Education Week 2024: This Week @ ICASSP

Growing educational portfolio at SPS

• **SigPort**: post your slides & posters

• **Resource Center**: video talks & tutorials

• **Mentoring activities**: micro mentoring @ ICASSP/ICIP

• **Short courses**: 3rd year @ ICASSP

• **Curation**: SP course weblinks, textbooks, lecture material, etc.
Educational Short Courses at ICASSP 2024
Visit the registration desk to sign up!

In-depth & multi-facet understanding of a topic
▶ 10-hour courses in three sessions (Wednesday-Friday)
▶ Hands-on experience and deep dive into topic areas
▶ Professional develop. certificate (PDH) for training hours
▶ Also on-demand @SPS Resource Center (w/ member discount)

Thank you to all course instructors, SPS Edu Board, and contributors!
Seasonal School & Short Course Chairs
Seungjin Choi      Minje Kim
Hyungmin Park

PRACTICAL GUIDE TO COMPUTATIONAL IMAGING: FROM BASICS TO BRILLIANCE
Come to learn from authors of Nature and Cell articles on cutting-edge computational imaging technologies, gain insights on imaging principles, system architectures, and enabling algorithms, and try out yourself with hands-on experiments.

RF SENSING for WIRELESS AI PERCEPTION
Come to learn the theories, algorithms, and applications from leading technologists and earn CEUs/PDHs certificates

MULTI-AGENT OPTIMIZATION AND LEARNING
Come to learn the theories, algorithms, and applications from leading researchers and earn CEUs/PDHs certificates

Key Elements & Insights
✓ Wireless Sensing Primer✓ With Signal Proc. & Deep Learning✓ Wi-Fi & mmWave Sensing✓ Hands-on Labs & Datasets

Course Topics
✓ Foundations & Federated Learning✓ Distributed Optimization✓ Learning over Graphs✓ Hands-on Labs Practices
Renew Membership & Recruit New Members

Accessible pricing for our growing membership to Developing Nations, Low-Income Economies and Students

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<th>Developing Nations</th>
<th>Low Income Economies</th>
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- Low membership fee for student and graduate student members
- Visit the IEEE website for list of eligible countries; Discounted Society pricing available only to IEEE electronic members on Society essential package
Benefits for SPS Members

- **Build** your professional network, receive **recognition**, and **advance your career**
- **Amplify** and **Be part of** signal processing R&D, mission & impact

- *IEEE Signal Processing Magazine*
- Access to the info. and experts of the latest signal processing research & technologies
- Discounts on SPS conferences
- Access to SPS continuing education materials
- Mentoring program, networking, and professional development events
- Scholarship, grants, and resources for **students**, **young professionals**, **women**, **practitioners**, etc.
Celebrating the **SPS Birthday** → Formed 2 June 1948

- **Global celebrations** since ’23 inaugural for SPS impact, history, and communities by members/chapters

Organize SPS Day event for 2024 around you

- Hold events **two weeks** before/after 2 June tagged **#SPSDay**
- Submit pictures of your event in the SPS-Day Photo Contest
Stay in touch with SPS

Share your experience using the conference hashtag: 

#ICASSP2024

Follow @ieeeICASSP on Facebook and Twitter for more news about ICASSP 2024 and beyond!
SPS ExCom 2024: Looking Forward to Serving You

Min Wu
President

Kostas N. Plataniotis
President-Elect

Alle-Jan van der Veen
Vice President-
Technical Directions

Haizhou Li
Vice President-Conferences

Roxana Saint-Nom
Vice President-Education

Kenneth Lam
Vice President-Membership

Antonio Ortega
Vice President-Publications

Rich Baseil
Executive Director
Thank you!
Enjoy your time at ICASSP 2024!
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