



# IEEE SIGNAL PROCESSING SOCIETY

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IEEE SB ASIET

2020-2021

# IEEE SPS

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- IEEE's first society, since 1948.
- Signal processing is the enabling technology for the generation, transformation, and interpretation of information.
- Serves the members with high quality publications, technical and educational activities, leadership opportunities, and conferences.
- With an SPS membership you will have access to numerous academic opportunities, employment and professional networking opportunities, events and conferences, etc.
- Helps in providing numerous job opportunities in the signal processing field.



# SIGNAL PROCESSING SOCIETY MISSION, VISION & DIVERSITY STATEMENTS



Signal processing is the enabling technology for the generation, transformation, extraction, and interpretation of information.

## **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; and provide a venue for people to interact and exchange ideas.*

## **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.*

## **Diversity Statement**

*The IEEE Signal Processing Society adheres to the IEEE Code of Conduct and is committed to providing equal opportunity to its members, regardless of ethnicity, race, nationality, disability, socioeconomic status, sexual orientation, religion, gender, age, and/or personal identity. The Society is committed to a welcoming and inclusive environment that promotes diversity in the signal processing community.*

## ABOUT US

IEEE Signal Processing Society Student Branch Chapter- Adi Shankara Institute of Engineering and Technology (IEEE IAS SB Chapter-ASIET, SBC64201.), has been an active and vibrant chapter since its formation on 6th of April, 2016. This SB chapter serves as a gateway to academic lectures and voluntary activities that further develop the student's scientific knowledge and diversify their academic life. After four years of experience in conducting various varieties of activities while facing and overcoming many challenges, the chapter's activities have started to grow into much more colorful and meaningful ones. The SB chapter has recently pledged its support to encourage more activities to help the members have a good industrial exposure with the help of other chapters in IEEE SB ASIET.

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### SPS EXECUTIVE COMMITTEE 2020-2021

Neema M

Chapter Advisor

TN Adithya Shenoy

Treasurer

Jaimy

Staff Advisor

V U Anakha

Chairperson

Sinu Damodaran

Secretary



# STUDENT MEMBER BENEFITS

## 1. Broaden your knowledge with complimentary tools and resources

- Digital delivery of IEEE Signal Processing Magazine and the Content Gazette.
- Unlimited access to select SPS publications through the Signal Processing Digital Library via IEEE Xplore.
- Unlimited access to educational materials, including conference plenaries and tutorials, in the SPS Resource Center
- Monthly delivery of the Inside Signal Processing eNewsletter

## 2. Connect with our global network to share ideas and opportunities

- Network with signal processing leaders, share research, and exchange ideas at SPS conferences and events
- Discover communities and opportunities for students, Young Professionals, Women in Signal Processing, and industry professionals
- Connect with members near you through local events curated by SPS' worldwide Chapters and Student Branch Chapters
- Get involved with a Technical Committee to meet SPS members with similar technical interests



### **3. Volunteer with our community and become an asset to society activities**

- Work with other dedicated professionals across publications, conferences, membership activities, awards, and more.
- Choose your level of involvement from varying degrees of time commitment and responsibility - write a blog post, sit on an editorial board for a publication, or help organize a conference!.
- Learn more about our volunteer opportunities.

### **4. Receive exclusive discounts on world- class SPS products and services**

- Discounts on registration to attend SPS conferences and workshops, including ICASSP and ICIP.
- Discounts on uploading to SigPort
- Discounts on SPS co-sponsored publications
- Coming soon! Discounts on PDH/CEU credits obtained through SPS Resource Center



# IEEE SIGNAL PROCESSING SOCIETY EXECUTIVE COMMITTEE

## BOARD MEMBERS

**PRESIDENT :** *Ahmed H. Tewfik*

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**EXECUTIVE DIRECTOR :** *Rich Baseil*



# AWARDS

Many of the honors of the IEEE Signal Processing Society (SPS) are awarded after nomination / endorsement by the technical committees.

In the IVMSP TC (Image, Video, and Multidimensional Signal Processing Technical Committee), the Awards Subcommittee is responsible for collecting candidate nominations, presenting these candidate nominations (i.e., voting), and then forwarding successful candidates as official nominations .

Each year, the Signal Processing Society and IEEE honor a select number of members with awards for their research and work in signal processing and for their involvement in both IEEE and the Signal Processing Society through the following awards:





- **IEEE Jack S. Kilby Signal Processing Medal**
  - Was established in 1995 in honor of Jack S. Kilby.
  - The award may be presented for outstanding achievements in signal processing.
  
- **IEEE James L. Flanagan Speech and Audio Processing Award**
  - was established in 2002.
  - Recipient selection is administered through the Technical Field Awards Council of the IEEE Award Boards.
  
- **IEEE Fourier Award for Signal Processing**
  - For an outstanding contribution to the advancement of speech and/or audio signal processing.
  - Presented to: An individual or a team up to three in number
  - Scope: For an outstanding contribution to the advancement of signal processing, other than in the areas of speech and audio processing
  
- **Carl Friedrich Gauss Education Award**
  - Scope: Honors educators who have made pioneering and significant contributions to signal processing education.
  - Prize: The prize shall be \$1500, a plaque and a certificate



- **Best Paper Award**
  - Scope: Honors the author(s) of a paper of exceptional merit dealing with a subject related to the Society's technical scope, and appearing in one of the Society's solely owned transactions, the Journal of Selected Topics in Signal Processing, the Transactions on Computational Imaging, or the Transactions on Signal and Information Processing over Networks, irrespective of the author's age.
  
- **Conference Best Paper Award for Industry**
  - Scope: Recognizes the author(s) of an ICIP and ICASSP/GlobalSIP paper of exceptional industrial merit and industrial impact dealing with a subject related to the Society's technical scope.
  
- **Claude Shannon-Harry Nyquist Technical Achievement Award**
  - Scope: Honors a person who, over a period of years, has made outstanding technical contributions to theory and/or practice in technical areas within the scope of the Society, as demonstrated by publications, patents, or recognized impact on the field.



### ▪ **Chapter of the Year Award**

- The IEEE Signal Processing Society Chapter of the Year Award will be presented annually to a Chapter that has provided their membership with the highest quality of programs, activities and services.
- Prize: The representative of the winning Chapter will receive a plaque and a check of \$1,000

### ▪ **IEEE Biomedical Engineering Award**

- Recipient selection is administered by the Technical Field Awards Council of the IEEE Awards Board.
- Presented to: An individual, a team, or multiple recipients up to three in number
- Scope: For outstanding contributions to the field of biomedical engineering
- Prize: The award consists of a bronze medal, certificate.

### ▪ **Amar G. Bose Industrial Leader Award**

- Scope: Recognizes an industry business or technical leader whose leadership has resulted in major and outstanding advances or new directions using signal processing technologies within the scope of the Society.
- Prize: The prize shall be \$1500, a plaque and certificate.

- **Signal processing Letters Best Paper Award**

- Scope: Honors the author(s) of a letter article of exceptional merit and broad interest on a subject related to the Society's technical scope and appearing in the IEEE Signal Processing Letters.
- Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate.

- **Signal processing Magazine Best Column Award**

- Scope: Honors the author(s) of a column of exceptional merit and broad interest on a subject related to the Society's technical scope and appearing in the Society's magazine.
- Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate.

- **Conference Best Paper Award for Industry**

- Scope: Recognizes the author(s) of an ICIP and ICASSP/GlobalSIP paper of exceptional industrial merit and industrial impact dealing with a subject related to the Society's technical scope.
- Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate. In the event that there are more than three authors, the maximum prize shall be divided equally among all authors and each shall receive a certificate.



- **Signal processing Magazine Best Paper Award**
  - Scope: Honors the author(s) of a paper of exceptional merit and broad interest on a subject related to the Society's technical scope and appearing in the Society's magazine.
  - Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate.
  
- **Sustained Impact Paper Award**
  - Scope: Honors the author(s) of a journal article of broad interest that has had sustained impact over many years on a subject related to the Society's technical scope.
  - Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate.
  
- **Donald G. Fink Overview Paper Award**
  - Scope: Honors the author(s) of a journal article of broad interest that has had substantial impact over several years on a subject related to the Society's technical scope.
  - Prize: The prize shall consist of \$500 per author (up to a maximum of \$1500 per award) and a certificate. In the event that there are more than three authors, the maximum prize shall be divided equally among all authors and each shall receive a certificate.



## Pierre-Simon Laplace Early Career Technical Achievement Award

- Scope: Honors an individual who, over a period of years in his/her early career, has made significant technical contributions to theory and/or practice in technical areas within the scope of the Society, as demonstrated by publications, patents, or recognized impact on the field, including but not limited to, a standard, a product, or a technology trend.
- Prize: The prize shall be \$1500, a plaque and a certificate.
  - **Leo L. Beranek Meritorious Service Award**
    - Scope: Honors contributions to the Signal Processing Society.
    - Prize: The prize shall consist of a plaque and a certificate.
  - **Norbert Wiener Society Award**
    - Scope :Honors outstanding technical contributions in a field within the scope of the Signal Processing Society and outstanding leadership within that field.
    - Prize: The prize shall be \$2500, a plaque and a certificate.
  - **Distinguished Industry Speaker Nominations**
    - Scope: Each year, up to ten (10) technically diverse and geographically dispersed individuals shall serve as Signal Processing Society Distinguished Industry Speaker (DIS). The formal term of appointment shall be two calendar years with up to five (5) individuals appointed each year.

# TRAVEL GRANTS

- **ICASSP**

ICASSP is the world's largest and most comprehensive technical conference focused on signal processing and its applications. ICASSP 2020 will feature a mix of national and international speakers, tutorials, workshops and exhibits. Featuring contemporary research, highly regarded presenters and a focus on translating research into practice the conference is sure to be an exciting event for all who attend.

Application Open : January 24,2020

Application Closed : January 31,2020

Decision Announced : February 12,2020

- **ICIP**

ICIP is the world's largest and most comprehensive technical conference focused on image and video processing and computer vision. ICIP features world-class speakers, tutorials, and industry sessions, and creates an excellent forum to foster innovation and entrepreneurship, and network with the brightest minds in academia and industry that are working in this field.

Application Open : Not Decided

Application Closed : Not Decided

Decision Announced : Not Decided



- **Additional Grant**

  - Travel Grants For Practicing Engineers

  - Application Open : 6 March 2020

  - Application Closed : 29 July 2020

- **Certified Chapter Travel Grants** Application Open : 6

  - March 2020 Application Closed : 29 July 2020

