# New Society Officers Elected

he Board of Governors of the IEEE Signal Processing Society elected two new officers, who will start their terms on 1 January 2024.

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#### **New Society officers elected**

Haizhou Li



Haizhou Li will serve as the 2024-2026 vice president-conferences. He is a Fellow of IEEE and is with the Chinese University of Hong Kong (CUHK), Shenzhen, China, and

the National University of Singapore. He succeeds Ana Perez-Neira, who has held this position since January 2021.

#### Antonio Ortega



Antonio Ortega will serve as the 2024-2026 vice presidentpublications. He is a Fellow of IEEE and is with the University of

Southern California. He succeeds Marc Moonen, who has held this position since January 2021.



Ahmed Tewfik | IEEE Signal Processing Society Past President, 2022–2023 Nominations and Appointments Committee Chair

# **Election of President-Elect**, **Regional Directors-at-Large, and Members-at-Large**

t is my pleasure to announce that the IEEE Signal Processing Society (SPS) annual election will commence on 15 August, and your vote is more important than ever! This year, all eligible SPS members will vote for the next President-Elect (for a term from 1 January 2024 through 31 December 2025) in addition to the Regional Directors-at-Large for Regions 7&9 and 10 (for a

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term from 1 January 2024 through 31 December 2025) and Members-at-Large (for a term from 1 January 2024 through 31 December 2026) of the SPS Board of Governors (BoG).

Ballots will be mailed to SPS members. The ballot includes a diverse slate of candidates for all elections, who were vetted by the SPS Nominations and Appointments Committee, as well as a space for write-in candidates. This year's election offers

#### The Candidates for President-Elect



Konstantinos (Kostas) N. Plataniotis



Nicholas Sidiropoulos

#### The Candidates for Regional Director-at-Large

#### Regions 7 and 9



Timothy N. Davidson



Nascimento





Chiou-Ting Hsu



Paunwala

Brendt Wohlberg

### The Candidates for Member-at-Large



Qian He



Stephen McLaughlin





lole Moccagatta

SPS members the opportunity to cast their votes via the web at https:// eballot4.votenet.com/IEEE for up to one President-Elect, one Regional Director-at-Large for your corresponding Region-Regions 7 and 9 (Canada and Latin America) and Region 10 (Asia and Pacific)-and three Member-at-Large candidates. Ballots must be received at the IEEE no later than 2 October 2023 to be counted. Members must meet the eligibility requirements at the time the ballot data are generated to be eligible to vote. To be eligible to vote in this year's Society election, you must have been an active SPS member, affiliate, or graduate student member as of 30 June 2023. This is the date when the list of eligible Society voting members was compiled.



Petros Maragos



Pappas

### The 2023 Candidates for President-Elect

The 2023 candidates for President-Elect (presented in alphabetical order) and their candidate statements appear next.

## Candidate statement from

Konstantinos (Kostas) N. Plataniotis The SPS has been my professional home since 1991, and I have always cherished the opportunity to continue serving our community. The nomination for the post of SPS President-Elect humbles me. Within the term of office, I envision addressing the following priorities:

Serving our members: As we celebrate our 75th anniversary and look to the future, we can confidently say that our Society's membership will look different and much more diverse than today's. Members in different geographical regions, industries, and career stages will have different needs and priorities. We will develop personalized activities and services around individual members' needs to the extent possible. For example, the SPS will support activities that combine networking and mentoring programs with customized education and help build project-focused communities quickly for specific purposes. We will use enabling technologies, including webinars and virtual meetings, to establish and promote public forums, possibly free-of-charge ecosystems, to exchange ideas, data, and research artifacts; engage practicing engineers; and collaborate with industry leaders. We will intensify our investment and collaborate with IEEE and sister Societies in offering services and solutions that address the educational and capacitybuilding needs of our current and future members by delivering microlearning opportunities and "stackable" credentials in emerging interdisciplinary areas. With new technologies making the interactions among our members more convenient, we will continue expanding our networking and mentoring programs to more underserved areas and underrepresented groups in our community. Diversity and inclusion are our moral and ethical responsibility and necessary conditions for sustainable long-range growth.

Support to volunteers: The SPS's governance structure ensures that our goals and objectives are met. It should be future-focused and agile. We will expand our footprint and create new programs in emerging interdisciplinary areas such as data science, artificial intelligence (AI), and machine learning (ML). Moreover, as the submitted material is projected to increase, we will, in consultation with IEEE, experiment with partially automated initial vetting of submitted material while maintaining overall quality control at subsequent levels. Keeping our volunteers engaged and their workload

reasonable while maintaining our reputation as a trusted knowledge source is feasible and doable.

Securing the future: The SPS finances our community's operations, offerings, and services to its members. Continuing to operate in a self-sustainable way is paramount for the long-term viability of our professional home. Dealing with the financial shortfall from the open access initiative, accounting for the regional membershipsegment conference participation fee adjustments, financing new member services, and supporting membership-drive incentives impact the SPS's fiscal profile. Still, some of our members' conference fees are high, and open access publishing fees are unreasonably excessive given their circumstances, i.e., for those who transition between careers or are in a low-income region. That said, the SPS's funding models do not need to be limited to membership subscriptions and conference and publication fees. In consultation with IEEE, we will explore income streams from sponsored activities, including support from corporate sponsors for conferences; public forums and special group activities; education and skills capacity offerings; and the monetization of applications related to "information summarization" and "executable knowledge."

For more information about Konstantinos (Kostas) N. Plataniotis, please visit https://www.plataniotis.com.

# Candidate statement from Nicholas Sidiropoulos

I have served the SPS in leadership roles for many years. Among the various efforts I have undertaken, I'm particularly pleased with the following:

In my service as the chair of the Signal Processing for Communications and Networking Technical Committee (SPCOM TC), I helped institute a rigorous paper award screening and multistage selection process that remains in use 17 years later. Every article published in *IEEE Transactions* on Signal Processing that falls under the scope of the TC is "scan-reviewed" by a TC member and is thus given a chance to be considered for award nomination. I received the SPS Meritorious Service Award for my TC service and leadership.

- In 2016–2017, I chaired a committee tasked with developing an SPS-related repository under arXiv. We established arXiv/eess (Electrical Engineering and Systems Science: https://arxiv.org/archive/eess), the first engineering repository under arXiv, which now attracts many thousands of preprints/year. This has enhanced the visibility and footprint of the SPS.
- While serving as SPS Vice President for Membership, I led a charge to reduce the SPS membership fees for members in developing countries and another to ensure the proper representation of the different technical constituencies within the SPS on the Awards Board, the Nominations and Appointments Committee, and the SPS Fellows Committee. Fairness, transparency, equity, and inclusion have always been important to me.

In recent years, many of us have turned our attention to ML, and this has created a strong current within the SPS. Non-IEEE/SPS venues are growing in job market value. Our answer should be multipronged, but a key point should be to renew our vows to offer quality reviews and insightful and authoritative editorial decisions in a timely fashion. I was pleased to see the ICASSP submission and reviewing process move to the Microsoft CMT platform, which hosts the major AI/ ML conferences, and the presence of big AI/ML industry players at ICASSP 2023. We should up the ante and turn ICASSP into a major AI/ML recruiting event for our students.

Open access has been something that we have been struggling with for years now. While we have taken steps to mitigate its short-term impact, we have failed to embrace it. We should offer open access for our flagship transactions and conferences at a reasonable (US\$1,000) open access fee, further reduced for members in developing economies. We can compensate for the revenue loss through targeted IEEE *Xplore* advertisements and the increased visibility/hits/citations/ impact that come from open access.

Promoting diversity and fostering inclusive excellence and respect for individual differences should be high on our agenda. We have made progress, but much remains to be done. There are underserved parts of the world that are a significant source of underrepresented SPS talent, and we should focus more on those communities to recruit, mentor, and elevate future SPS leaders. Another grand challenge we must reckon with is the rapidly emerging transition to a more divided multipolar world. As an international scientific society, we should stand united to foster pathways for scientific exchange and better understanding of each other.

I will be honored to serve the SPS if elected.

For more information about Nicholas Sidiropoulos, please visit https:// sites.google.com/virginia.edu/sidiro poulosforsps-pe?usp=sharing

#### The 2023 Candidates for Regional Director-at-Large

The 2023 candidates for Regional Director-at-Large (presented in alphabetical order) appear next. Candidate biographies will be included in the ballot.

### The 2023 Candidates for Member-at-Large

The 2023 candidates for Member-at-Large (presented in alphabetical order) appear next. Candidate biographies will be included in the ballot.

#### Conclusion

The BoG is the governing body that oversees the activities of the SPS. The SPS BoG has the responsibility of establishing and implementing policy and receiving reports from its standing boards and committees and comprises

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at the M.V. Lomonosov University and the V.A. Steklov Mathematical Institute of the Russian Academy of Sciences. He is currently a professor of Applied Mathematics at the Benemérita Universidad Autónoma de Puebla. 72570 Puebla, Mexico. He is a recipient of the Distinguished Visitor Award from the Complutense University of Madrid, an associate researcher at the International Center of Theoretical Physics of Trieste (Italy), and received the State Prize for Science and Technology of the State of Puebla, Mexico. His research focuses on theoretical results in several branches of analysis and differential equations and their applications in epidemiology and medicine, including the analysis of normal and abnormal electrical activity of the brain and the heart and its correlation with the corresponding electrical signals, using inverse problem methodologies.

*Javier Herrera-Vega* (vega@fcfm. buap.mx) received his Ph.D. degree in computer science from the National Institute of Astrophysics, Optics and Electronics. He was a posdoctoral researcher at Centro Multidisciplinario de Modelación Matemática y Computacional and is with Benemérita Universidad Autónoma de Puebla, 72570 Puebla, Mexico. He has been a level C member of the Sistema Nacional de Investigadores since 2020. His research focuses on the processing and analysis of biomedical signals, mainly from neuroimaging modalities like electroencephalography and functional nearinfrared spectroscopy.

#### References

 B. Boashash, "Estimating and interpreting the instantaneous frequency of a signal. I. Fundamentals," *Proc. IEEE*, vol. 80, no. 4, pp. 520–538, Apr. 1992, doi: 10.1109/5.135376.

[2] B. Boashash, "Estimating and interpreting the instantaneous frequency of a signal. II. Algorithms and applications," *Proc. IEEE*, vol. 80, no. 4, pp. 540–568, Apr. 1992, doi: 10.1109/5.135378.

[3] A. Cicone, S. Serra-Capizzano, and H. Zhou, "One or two frequencies? The iterative filtering answers," 2021, *arXiv:2111.11741*.

[4] I. Daubechies, J. Lu, and H.-T. Wu, "Synchrosqueezed wavelet transforms: An empirical mode decomposition-like tool," *Appl. Comput. Harmon. Anal.*, vol. 30, no. 2, pp. 243–261, Mar. 2011, doi: 10.1016/j. acha.2010.08.002. [5] K. Gröchenig, Foundations of Time-Frequency Analysis. New York, NY, USA: Springer Science & Business Media, 2001.

[6] E. Hernández and G. Weiss, A First Course on Wavelets. Boca Raton, FL, USA: CRC Press, 1996.

[7] N. E. Huang, Z. Wu, S. R. Long, K. C. Arnold, X. Chen, and K. Blank, "On instantaneous frequency," *Adv. Adaptive Data Anal.*, vol. 1, no. 2, pp. 177– 229, Apr. 2009, doi: 10.1142/S1793536909000096.

[8] N. E. Huang and S. S. P. Shen, *Hilbert-Huang Transform and Its Applications*, vol. 16, 2nd ed. Singapore: World Scientific, 2014.

[9] V. Lostanlen, A. Cohen-Hadria, and J. P. Bello, "One or two frequencies? The scattering transform answers," in *Proc. 28th IEEE Eur. Signal Process. Conf. (EUSIPCO)*, 2021, pp. 2205–2209, doi: 10.23919/Eusipco47968.2020.9287216.

[10] G. Rilling and P. Flandrin, "One or two frequencies? The empirical mode decomposition answers," *IEEE Trans. Signal Process.*, vol. 56, no. 1, pp. 85–95, Jan. 2008, doi: 10.1109/TSP.2007.906771.

[11] D. Slepian, "On bandwidth," *Proc. IEEE*, vol. 64, no. 3, pp. 292–300, Mar. 1976, doi: 10.1109/PROC.1976.10110.

[12] H.-T. Wu, "Instantaneous frequency and wave shape functions (I)," *Appl. Comput. Harmon. Anal.*, vol. 35, no. 2, pp. 181–199, Sep. 2013, doi: 10.1016/j. acha.2012.08.008.

[13] H.-T. Wu, "Current state of nonlinear-type time-frequency analysis and applications to high-frequency biomedical signals," *Current Opinion Syst. Biol.*, vol. 23, pp. 8–21, Oct. 2020, doi: 10.1016/j.coisb.2020.07.013.

[14] H.-T. Wu, P. Flandrin, and I. Daubechies, "One or two frequencies? The synchrosqueezing answers," *Adv. Adaptive Data Anal.*, vol. 3, no. 1, pp. 29–39, Apr. 2011, doi: 10.1142/S179353691100074X.

# **SOCIETY NEWS** (continued from page 13)

23 Society members: the President and President-Elect, who are elected by the voting members of the Society; five Vice President officers of the Society, who are elected by the BoG; nine Members-at-Large, elected by the voting members of the Society; four Regional Directors-at-Large, elected locally by the Society voting members of the corresponding Region; the Awards Board chair and Young Professionals Committee chair. The seven officers are the President, President-Elect. Vice President of Conferences. Vice President of Education, Vice President of Membership, Vice President of Publications, and Vice President of Technical Directions. The Executive Director of the Society shall serve ex officio, without vote.

The President-Elect is an SPS member elected by the Society's membership via the annual election to serve as an officer and as a voting member on the Society's BoG, Executive Committee, Conferences Board, Education Board, Membership Board, and Publications Board. The President-Elect position automatically succeeds to President.

Regional Directors-at-Large are SPS members who are elected locally

by Society voting members of the corresponding Region via the annual election to serve on the Society's BoG as nonvoting members and voting members of the Society's Membership Board. Members-at-Large represent the member viewpoint in the BoG's decision making. They typically review, discuss, and act upon a wide range of items affecting the actions, activities, and health of the Society.

More information on the SPS can be found on the SPS website at https://sig nalprocessingsociety.org/.

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