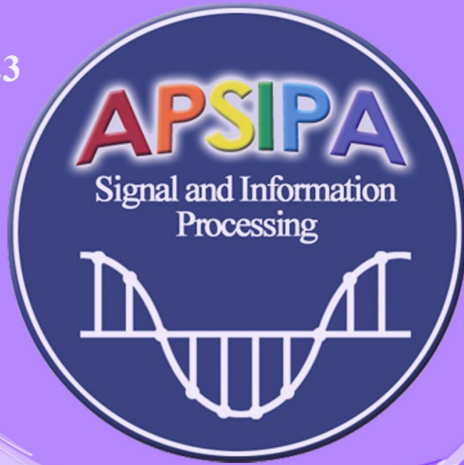


Issue 39  
July, 2023



# APSIPA

NEWSLETTER  
Asia-Pacific Signal and Information Processing Association Newsletter

## Greetings!

Welcome to the July issue of the APSIPA newsletters!

ICASSP 2023 held in Rhodes was inconvenient with the flight schedule, lodging, and transportation on the island while traveling due to the nature of the area where the venue was an island.

However, it was a very nice venue for interaction with many participants due to the good weather and wide outdoor space adjacent to the sea.

The APSIPA BoG meeting was held in Rhodes and we were able to share more progressive opinions. It was great to meet the BoG members, including the newly appointed president and president-elect.

At this meeting, there was a discussion about APSIPA ASC 2023 to be held in Taiwan this year, and a discussion about a new host country for future APSIPA ASC. After that, there was a status report and Q&A from each vice president.

In this newsletter, President Kawahara delivers an important message. In this message we convey how much effort is going on in our society. Also, Vice President Tanaka is giving an update on the current state of APSIPA membership. We look forward to continued growth of APSIPA members. Vice President Takamura announces the APSIPA ASC Industry Forum to be held in 2023. APSIPA ASC 2023 is expected to serve as the heart that connects the activities of our members. There is publicity and information about this academic conference, so please give us a lot of interest. In addition, there are other important news.

We always look forward to new members attending APSIPA ASC2023 and contributing more to the APSIPA Transactions on Signal and Information Processing (ATSIP) journal.

Enjoy reading this issue!

Sanghoon Lee



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## Message from APSIPA President

I hope you are doing well. By this May, virtually all restrictions due to COVID-19 have been lifted up, and we are free to move and meet each other as before. I could meet many of you at ICASSP 2023 this June. We also had a BoG meeting during the conference. It was my first overseas travel since 2020, and I felt it was good to talk in person regarding various matters. In this issue, I have several good news.

1. APSIPA Transactions on Signal and Information Processing (T-SIP) gets Impact Factor.

[APSIPA Transactions on Signal and Information Processing \(T-SIP\)](#) is a flagship journal in our society launched ten years ago. It made steady progress in the number of paper submissions, publications, and citations. Now it is ranked #19/222 (84 percentile; Q1) in the signal processing area in [SCOPUS CiteScore](#) 2022. It will finally get Impact Factor. I hope many of you will submit a quality paper to this Transaction as the review process is prompt.

2. APSIPA ASC 2023 received a record number of paper submissions

[APSIPA ASC 2023](#) will be held in Taipei on October 31 through November 3. The paper submission deadline has passed, and the number of paper submissions has reached almost 650, making a new record. I believe the conference will be very successful with the presentation of many good papers and the attendance of many active researchers. I am looking forward to meeting you there.

3. We will have ASEAN workshops in Hanoi and Bandung this summer.

To promote our activities in developing countries, we organize workshops in ASEAN countries. This summer, we have a [workshop in Hanoi](#) at HUST (Hanoi University of Science and Technology) on July 8 (<https://mica.edu.vn/apsipa2023/>), and another [workshop in Bandung](#) at ITB (Institut Teknologi Bandung) on August 1 (<https://s.id/APSIPA-WS2023>). We welcome your participation.

APSIPA is healthy in its financial situation as we did not spend so much during the pandemic, and we would like to promote more activities, such as Winter School and Chapter events. Your suggestions, proposals, and contributions will be appreciated.

Best Regards

Tatsuya Kawahara

APSIPA President (2023-2024)

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## **Message from VP for Member Relations and Development**

**Toshihisa Tanaka (Tokyo University of Agriculture and Technology)**

I am pleased to provide you with an update on the current state of APSIPA membership and our efforts to foster growth and development within our community.

As of now, APSIPA has a total of 1,184 members, with 900 full members, 83 life members, and 201 student members. Regrettably, we have experienced a decline of 72 members compared to the same period last year. This decrease can be attributed to the impact of the pandemic, which resulted in reduced participation in the ASC in 2020. However, I am optimistic that our membership numbers will rebound in the coming year. The ASC events held in Tokyo in 2021 and Chiang Mai in 2022 saw increased participation, indicating a positive trend that is likely to contribute to future membership growth.

When examining APSIPA membership by country, Japan and China have consistently held the first and second positions, with 456 and 415 members, respectively, until 2022. However, preliminary figures for this year indicate a significant shift, with Japan now having 514 members and China having 198 members. This substantial decrease in Chinese membership seems to be closely related to the ASC location, as the event was held in Lanzhou, China in 2019 and in Tokyo, Japan in 2021. It is important to note that APSIPA membership is granted for a three-year period after participation in the ASC. As the pandemic approaches its conclusion, we anticipate an increase in membership from various countries and regions.

At APSIPA, one of our key missions is to identify researchers from underrepresented countries and support the growth of young researchers. In line with this objective, we organized a workshop in Hanoi, Vietnam last year and invited the outstanding presenters to the ASC in Chiang Mai. As a result, we have observed a significant increase in membership from Vietnam this year. Continuing our commitment, we will be holding this year's workshop once again in Hanoi. Furthermore, we are excited to announce a new workshop in Bandung, Indonesia, aimed at discovering and nurturing talented researchers from that region.

We extend our deepest gratitude for your unwavering support and participation in APSIPA. Together, we can continue to enhance collaboration, knowledge sharing, and research development within our community.

Thank you once again for your continued support.

Toshihisa TANAKA, PhD, SMIEEE

Professor

## **The activities of APSIPA Industrial Relations and Development and Industry Forum organization**

### **Seishi Takamura, APSIPA VP-IRD, APSIPA IGB Chair**

APSIPA's VP positions include VP-IRD, which is operating APSIPA Industrial Governance Board (IGB) Committee. One of its responsibilities is creating speaking opportunities for industrial members in APSIPA-related conferences, meetings, seminars, forums, and web communities. That is why APSIPA IGB has organized Industry Forum at every APSIPA Annual Summit and Conference (ASC) by inviting distinguished speakers worldwide.

Former speakers are -- in 2020, Dr. Yuichi Nakamura, Executive Specialist, NEC Corporation and Dr. Danilo Pau, Technical Director, System Research and Applications, STMicroelectronics, Agrate Brianza. In 2021, Dr. Gerard Medioni, Vice President/Distinguished Scientist, Amazon / Professor Emeritus, University of Southern California and Mr. Chia-Yung Su (Joe), Co-founder/Chief Technology Officer, Appier. In 2022, Dr. Yanzhi Wang, Northeastern University, Chairman and former CEO of CoCoPIE Inc. and Dr. Shuhao Wang, Co-founder and CTO of Thorough Future.

And in 2023 this year, we set the theme of the Industry Forum to be "AI for human well-being" and invited two renowned speakers.

One of the speakers is Dr. Stefan Winkler, Asus Intelligent Cloud Services (AICS), National University of Singapore (NUS), whose talk title will be "Machine Learning for healthcare applications." The outline of his talk will be Machine Learning's promise in healthcare -- cost reduction, effective treatments, prevention, early detection, and recent advances, challenges, and future directions.

Another speaker is Dr. Karthi Madhavan, Tata Consultancy Services, Taiwan, whose talk title will be "AI - Global Trends and Opportunities." The outline of his talk will be that technology transformed production and transactions, and now generative AI revolutionizes interactions, enabling transformative possibilities in economic activity.

Please visit <https://www.apsipa2023.org/industry.html> for more information. We take questions in advance; its form's link is on this webpage. We look forward to seeing you or receiving your questions for this year's APSIPA ASC Industry Forum!



## WELCOME TO APSIPA ASC 2023

APSIPA is an association to promote broad spectrum of research and education activities in signal and information processing. With the aim of promoting research and education in signal processing, information technology, and communications, APSIPA holds an annual conference “APSIPA ASC” in different countries since 2009. APSIPA is interested in all aspects of signal and information processing theories, algorithms, securities, implementations, and applications. The 15th annual conference organized by Asia-Pacific Signal and Information Processing Association will be held on October 31-November 3, 2023 in Taipei International Conventional Center, Taipei, Taiwan.

### IMPORTANT DATES

**May 17**

- ✓ Submission Deadline of Special Session Proposal
- ✓ Submission Deadline of Proposals for Forum, Panel and Tutorial

**August 2**

Notification of Paper Acceptance

**September 13**

Online Registration Deadline

**June 21**

Submission Deadline of Special Session and Regular Paper

**August 23**

- ✓ Submission Deadline of Camera Ready Paper
- ✓ Early Bird Registration

## CORE TOPICS

- Signal Processing Systems: Design and Implementation
- Signal and Information Processing Theory and Methods
- Speech, Language, and Audio
- Biomedical Signal Processing and Systems
- Image, Video, and Multimedia
- Multimedia Security and Forensics
- Wireless Communications and Networking
- Deep Learning: Algorithm, Implementations, and Applications
- Signal and Information Processing in Education
- Medical Signal Acquisition, Analysis and Processing
- Internet of Things Technology
- Data Analytics and Machine Learning
- Human Biometrics and Security Systems
- Signal and Information Processing for Smart Systems

## KEYNOTE SPEAKER

Don't miss this opportunity to gain valuable insights from these distinguished experts in the field. Join us at the conference to expand your knowledge and engage in meaningful discussions on the latest trends and advancements in signal and information processing!



### Wan-Chi Siu

The Hong Kong Polytechnic University, Hong Kong  
Life-Fellow IEEE

*"Deep Learning Latent Space for Super-Resolution with Extension to other Signal Processing Applications"*



### Mark Hong-Yuan Liao

Academia Sinica  
Taiwan  
IEEE Fellow

*"From YOLOv4 to YOLOv7"*

**Chiori Hori**

Mitsubishi Electric Research Laboratory  
USA

**TY Lin**

MediaTek Inc.  
Taiwan

*"The Impact of Edge AI – Opportunities and Challenges"*

## TUTORIAL

Join us on **October 30, 2023**, for an enlightening tutorial event featuring five captivating sessions at the forefront of artificial intelligence and information security. Take this opportunity to expand your knowledge, engage with experts, and stay at the forefront of AI and information security!

**Spoofing Face Recognition  
Systems with Adversarial  
Examples: Challenges and  
Countermeasures**

**Deep Learning beyond  
Curve Fitting -  
Understanding Bias and  
Fairness in Computer Vision  
in the Era of DALL-E and  
ChatGPT**

**Defending against  
Misinformation in the Wild**

**Advances in  
Psychoacoustics and  
Machine Learning towards  
Objective Speech  
Intelligibility Evaluation**

**Advancements in AI for  
Media Forensics,  
Cybersecurity, and Face  
Anti-spoofing**

## INDUSTRIAL FORUM

We are delighted to invite you to our Industrial Forum on November 1, 2023, centered around the main theme of "AI for Human Well-Being." This forum promises to be a platform where leading experts and professionals come together to explore the transformative potential of artificial intelligence in improving human lives!



Research Director & Associate Professor

**Stefan Winkler**

Asus Intelligent Cloud Services (AICS), Singapore

National University of Singapore (NUS), Singapore

***"Machine Learning for Healthcare Applications"***



Country Head

**Karthi Madhavan**

Tata Consultancy Services, Taiwan

***"AI - Global Trends and Opportunities"***

## **APSIPA Transactions on Signal and Information Processing Call for Papers**

### **AI for Healthcare**

Guest Editors: Sanjay Purushotham, Jonghye Woo, Jing Zhang, Mohammad Arif Ul Alam, Jun Cheng, Md Osman Gani

*Submission Deadline: 31 July 2023* Full details available [here](#).

### **Advanced Machine Learning Techniques for Remote Sensing: Algorithms and Applications**

Guest Editors: Man-On Pun, Bo Huang, Huimin Liu, Xiaokang Zhang

*Submission Deadline: 31 August 2023* Full details available [here](#).

### **Pre-trained Large Language Models for Information Processing**

Guest Editors: Bin Wang, Tatsuya Kawahara, Haizhou Li, Helen Meng, Chung-Hsien Wu

*Submission Deadline: 31 August 2023* Full details available [here](#).

### **Emerging Wireless Sensing Technologies for Smart Environments**

Guest Editors: Yan Chen, Vishal Monga, Chenshu Wu, Mojtaba Soltanalian, Dongheng Zhang, Daqing Zhang

*Submission Deadline: 31 August 2023* Full details available [here](#).

## Follow-up with New initiatives

### **APSIPA Transactions on Signal and Information Processing**

Asia-Pacific Signal and Information Processing Association (APSIPA) serves as an international forum for signal and information processing researchers across a broad spectrum of research, ranging from traditional modalities of signal processing to emerging areas where either (i) processing reaches higher semantic levels (e.g., from speech recognition to multimodal human behaviour recognition) or (ii) processing is meant to extract information from datasets that are not traditionally considered signals (e.g., mining of Internet or sensor information).

To encourage more to participate in our ASC, papers accepted for APSIPA transactions from Jan '22 to Oct '23 can be presented in the coming APSIPA ASC 2023 without the need to submit conference papers; these would still need to register for the conference.

To continue to solicit outstanding special-session/regular papers to be extended into the APSIPA transactions submission, TPC Co-Chairs of APSIPA ASC 2023 are to solicit such papers for a special issue dedicated to APSIPA ASC 2023, and try to integrate this process of shortlisting excellent papers during the review/decision process.

The liaison persons from APSIPA ASC '23 side are Prof. Jia-Ching Wang, TPC Co-Chair, and Alice Tsao, Secretary, while the liaison person from APSIPA transactions side is Prof. Weisi Lin.



## Call for Book Proposals

### APSIPA Open Access Book Series

[APSIPA](#) is launching the APSIPA Open Access Book Series in collaboration with the [NOW Publishers](#) and [Springer](#) publisher. By publishing a book through the APSIPA Open Access Book Series, authors can benefit from increased visibility, faster production, and no production fee. These books can be textbooks, multi-author edited volumes, research monographs, etc. At least one author of each of the books must be an [APSIPA member](#), and they can choose the publisher and the mode of publication.

#### **Aims:**

APSIPA is an association, which promotes research and education on signal and information processing, and publishing Open Access Books is an effective way to achieve our goals. The advantages of Open Access Book are the increased visibility, low production fees, and a faster production process. APSIPA will support all production fees and share the revenue with the authors. Also, APSIPA Editorial Board will support the peer review process and manage the production process with the publishers.

#### **Proposal Submission:**

We invite prospective authors to submit the title, authors, book types (textbook, research monograph, handbook, multi-author edited book, etc.), contents, and a sample chapter. Also, please provide a one-page description of the aim and importance of the book. Please provide these materials in a free format to the [Editor-in-Chief](#), Prof. Nam Ik Cho, via email to [nicho@snu.ac.kr](mailto:nicho@snu.ac.kr). When the proposal is accepted, the manuscript for the peer review needs to be submitted within eight months from the acceptance notification. Please visit [here](#) for details of the book production process and revenue sharing with APSIPA.

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##### **APSIPA VP-Publications:**

Weisi Lin, Nanyang Technological University, Singapore

## APSIPA Membership

Asia-Pacific of Signal and Information Processing Association (APSIPA) is an international association that promotes the advancement of signal and information processing research and development. This includes fostering international research exchange and nurturing young students and researchers to excel in our field. Signal and information processing is a core subject that finds its niche in many disciplines so advancements in SIP will benefit all these fields. The membership fees are greatly reduced to make APSIPA services available to as many people as possible and accordingly contribute widely to proliferate knowledge, which is one of the APSIPA missions.

To motivate APSIPA members to participate in APSIPA conferences, the registration for the [14th APSIPA conference](#) implies an automatic renewal of APSIPA membership up to the end of December 2023. Online Registration will open in September 2022.

### Membership Benefits:

- Links to highly qualified people within the organization to develop research, technology, teaching, and career
- Discount fee on APSIPA conferences
- Reduced subscription fee for APSIPA journals
- Access to information about the international activities in signal and information processing such as conferences, continuing education, short courses, seminars, distinguished lecture series, student internships, scholarships, job listings, publication venues, and mentorships

### Membership Categories:

There are two main categories in APSIPA membership:

#### 1. Individual Memberships

- Student Membership: members are those who are enrolled full time in universities, institutes, or any accredited degree.
- Membership: Full members are individuals interested in being part of the APSIPA mission to excel signal and information processing field. They are eligible to vote, hold positions in APSIPA association, and contribute to serve as editorial board and program committee members in APSIPA journals and conferences.
- Life Membership: Full members may choose to subscribe as life members pending on paying the discount fee of life membership. Early-bird registration fee is available for life members at all times when registering for APSIPA ASC.

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## 2. Patron Memberships

- Patron Members shall consist of those institutions, companies, laboratories or other organizations in signals and information processing, and which shall be from time to time elected to membership in accordance with the Bylaws of the Association.

### Membership subscription Fees

#### 1. Individual Memberships

Type of membership	Fees in US\$	Fees in HK\$
Student Membership	10 (per annual)	78 (per annual)
Full Membership	30 (per annual)	234 (per annual)
Life Membership	300 (a one-off fee)	2340 (a one-off fee)

#### 2. Patron Memberships

The patron membership fee is decided upon agreement with APSIPA based on the type of organisation and number of participants.

## Summary of Links

- APSIPA ASC 2023: <http://www.apsipa2023.org/>
- APSIPA Transaction on Signal and Information Processing: <http://journals.cambridge.org/sip>
- Paper Submission to APSIPA Transaction on Signal and Information Processing:  
<http://mc.manuscriptcentral.com/apsipa>
- APSIPA Industrial Activities: <http://www.apsipa.org/industrial.htm>
- APSIPA Friend's Lab: <http://www.apsipa.org/friendlab/FriendLabs.htm>
- APSIPA Membership Registration/Renewal: <http://www.apsipa.org/reg.asp>
- APSIPA Local Chapters: <http://www.apsipa.org/chapter/index.html>
- APSIPA Magazine: [http://www.apsipa.org/doc/magazine/apsipa\\_magazine2018.pdf](http://www.apsipa.org/doc/magazine/apsipa_magazine2018.pdf)
- APSIPA Photo Gallery: <http://www.apsipa.org/photo/photo.htm>

## APSIPA Who's Who

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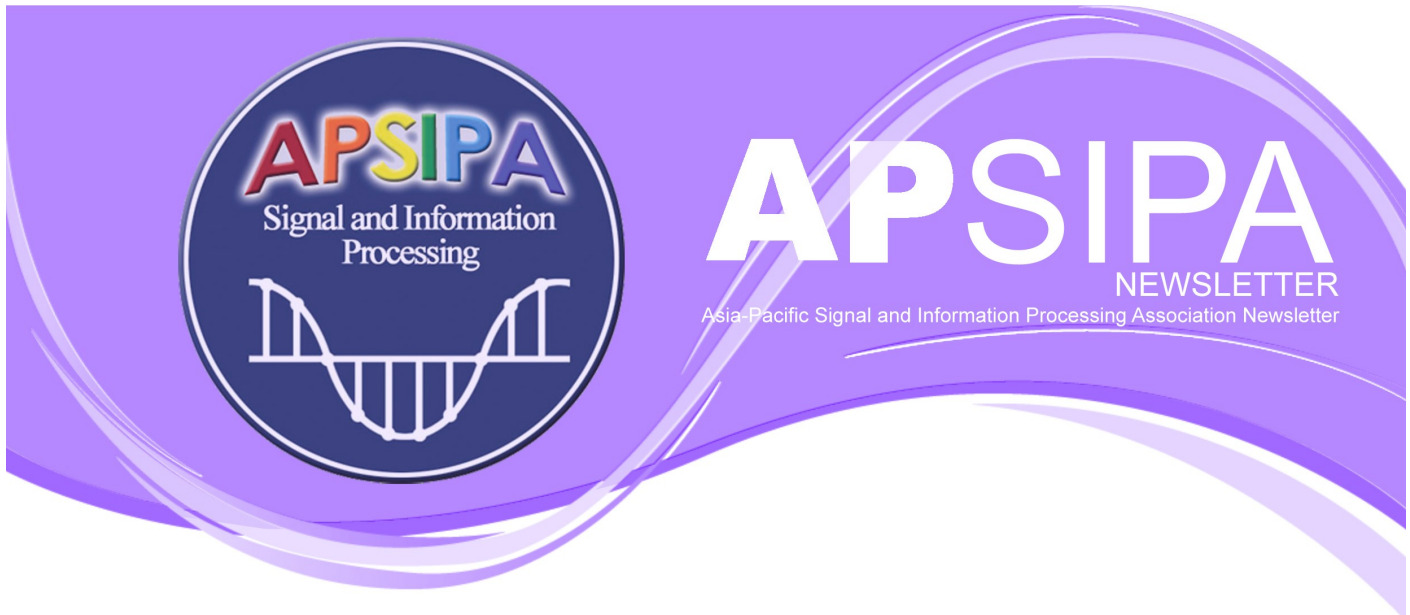
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**If not, then register online at**

**<http://www.apsipa.org>**