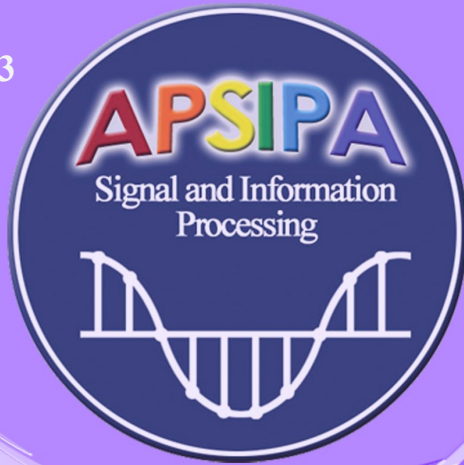


Issue 38
Apr. 2023



APSIPA

NEWSLETTER
Asia-Pacific Signal and Information Processing Association Newsletter

Greetings!

Welcome to the April issue of the APSIPA newsletter!

I am delighted to publish the last January issue and to make the second issue of this year, the April issue.

Time passes very quickly, but it always seems to have the meaning of development in that time. After APSIPA ASC 2022, it is being done through emails or local meetings of APSIPA members, but ahead of APSIPA ASC 2023 this year, I think we are starting to move a little bit busier now. It is my great pleasure to announce that the APSIPA Annual Summit and Conference (ASC) will be held in-person in Taipei, Taiwan from October 31 to November 3, 2023. This is the 15th APSIPA ASC and the second ASC to be held in Taiwan after 10 years.

I put the APSIPA ASC2023 CFP in this letter. Please check the detailed schedule. Above all,

The deadline for submitting special session proposals is May 3. We ask for your cooperation so that it can be an important event for academic exchange by organizing a session with your colleagues who are doing the same research topic as you.

Another important thing that the Singapore Local Chapter was launched from this year, and Prof. Woon-Seng Gan is now leading the Chapter. The news is also included in this newsletter.

I hope that the new year will be an opportunity for us to share more thoughts through the newsletter.

Please enjoy reading this issue!

Sanghoon Lee



In this issue

Message from APSIPA	Page 1
Call for Papers.....	Page 2
APSIPA 2022 Distinguished Lecturers...	Page 3
Sadaoki Furui Prize Paper Award... ..	Page 4
Singapore Local Chapter.....	Page 5
The US Local Chapter.....	Page 6
APSIPA Transactions.....	Page 9
Call for Book Proposals.....	Page 12
APSIPA Membership.....	Page 13
Summary of Links.....	Page 15
APSIPA Who's Who.....	Page 16



APSIPA ASC 2023

Asia Pacific Signal and Information Processing Association
Annual Summit and Conference 2023

OCTOBER 31-NOVEMBER 3, 2023 | TAIPEI, TAIWAN

Prevalence of Artificial Intelligence with Signal and Information Processing

CALL FOR PAPERS

IMPORTANT DATES

May 3, 2023	May 3, 2023	June 7, 2023	June 7, 2023	July 19, 2023	August 2, 2023	August 2, 2023
Submission Deadline of Special Session Proposal	Submission Deadline of Proposals for Forum, Panel and Tutorial	Submission Deadline of Regular Paper	Submission Deadline of Special Session Paper	Notification of Paper Acceptance	Submission Deadline of Camera Ready Paper	Deadline of Early Bird Registration

INTRODUCTION

APSIPA ASC 2023 (www.apsipa2023.org) is the 15th annual conference organized by Asia-Pacific Signal and Information Processing Association (APSIPA), which will be held on October 31-November 3, 2023 in Taipei, Taiwan. Founded in 2009, APSIPA organization (www.apsipa.org) aims to promote research and education in signal processing, information technology, and communications. The annual conferences have been held previously in Chiang Mai, Thailand (2022), Tokyo, Japan (2021), Auckland, New Zealand (2020), Lanzhou, China (2019), Hawaii, USA (2018), Kuala Lumpur, Malaysia (2017), Jeju, Korea (2016), Hong Kong, China (2015), Siem Reap, Cambodia (2014), Kaohsiung, Taiwan (2013), Los Angeles, USA (2012), Xi'an, China (2011), Biopolis, Singapore (2010), and Sapporo, Japan (2009). APSIPA is interested in all aspects of applications. Please refer to the conference web page for full information. All accepted papers will be included in IEEE Xplore and indexed by EI, like all previous years. The technical program includes, but not limited to the following areas.

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

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www.apsipa2023.org

Distinguished Lecturers for 2023-2024

The Distinguished Lecturer (DL) Program is established to serve the communities by organizing lectures given by distinguished experts. It is an educational program that promotes the research and development of signal and information processing in Asia-Pacific region. During the two-year term, the APSIPA Distinguished Lecturers will be serving as ambassadors of APSIPA and outreaching to audience in Asia-Pacific region as well as worldwide. For more information about the DL Program, please contact the Vice President of Institutional Relations and Education Program.

This year, we have eight newly selected Distinguished Lecturers. Learning theory and modeling

- **Sansanee Auephanwiriyaikul**, Chiang Mai University, Thailand
- **Zhengguo Li**, Institute for Infocomm Research, Singapore
- **Chia-Wen Lin**, National Tsing Hua University, Taiwan
- **Boxin Shi**, Peking University, China
- **Nipon Theera-Umpon**, Chiang Mai University, Thailand
- **Hong Vicky Zhao**, Tsinghua University, China
- **Chul Lee**, Dongguk University, Korea
- **Ming-Sui Lee**, National Taiwan University, Taiwan

APSIPA Sadaoki Furui Prize Paper Award

The 7th APSIPA Sadaoki Furui Prize Paper Award was presented to Bin Wang, Angela Wang, Fenxiao Chen, Yuncheng Wang, and C.-C. Jay Kuo for their paper “Evaluating word embedding models: methods and experimental results”. at APSIPA ASC 2022. The Sadaoki Furui Prize Paper Award Committee consists of the following APSIPA board members: Prof. Woon-Seng Gan, Prof. Anthony Kuh, Prof. Kenneth Lam, Prof. Kai-Kuang Ma, and Prof. Koichi Fujiwara. The committee considered papers published from 2017 to 2021 in APSIPA Transaction on Signal and Information Processing and also received nominations from APSIPA members. After taking in comments from reviewers, ranking, and deliberation among the members, the committee unanimously arrived at the above winner for the 7th APSIPA Sadaoki Furui Prize Paper Award.

APSIPA Singapore Local Chapter

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University of HongKong, Shenzhen*

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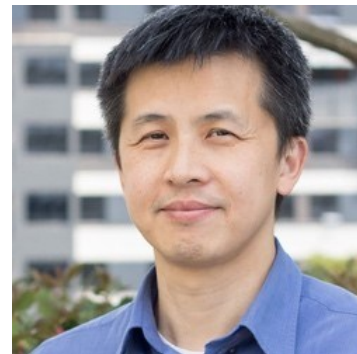
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Lee Kong Aik

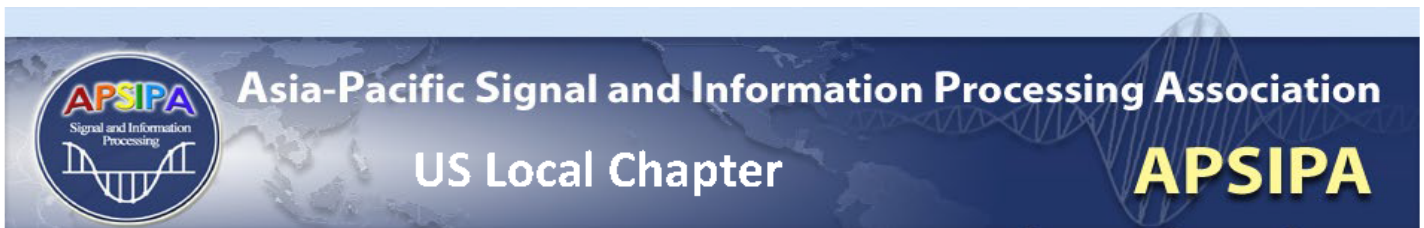
*I2R, A*STAR Institute for Infocomm Research*

Treasurer



Cheung Ngai-Man

Singapore University of Technology and Design



Panel Discussion (March 11, 2023, 5-6:30pm PST, California Time)

Panel Topic: Visual Coding for Machines

Panelists:



Lu Yu

Distinguished Professor
Zhejiang University, China
<https://person.zju.edu.cn/en/yul>



Hari Kalva

Professor and Associate Chair, Department of Electrical Engineering and Computer Science
College of Engineering and Computer Science
Florida Atlantic University, Boca Raton, FL U.S.A.
www.cse.fau.edu/~hari



Shan Liu

Distinguished Scientist and General Manager
Tencent Media Lab, Tencent Video, Tencent Games, U.S.A.
Chair/Co-Chair of MPEG VCM, Co-Editor of VVC/H.266
<https://www.linkedin.com/in/shanliu/>



Zhibo Chen

Professor, School of Information Science
University of Science and Technology of China, China
<https://faculty.ustc.edu.cn/chenzhibo>



Fengqing Maggie Zhu

Associate Professor, Elmore Family School of Electrical and Computer Engineering
Purdue University, West Lafayette, U.S.A.
<https://engineering.purdue.edu/~zhu0/>



Shiqi Wang

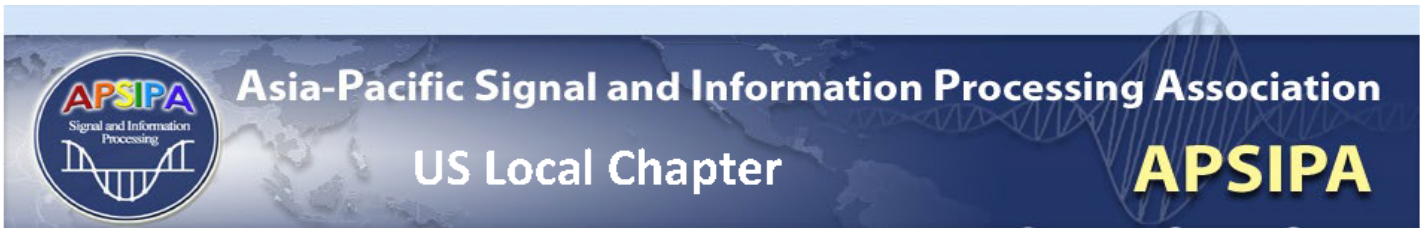
Assistant Professor, Department of Computer Science
City University of Hong Kong
<https://www.cs.cityu.edu.hk/~shiqiwan/>

Moderator:



Ying Liu

Assistant Professor, Department of Computer Science & Engineering
Santa Clara University, Santa Clara, CA, U.S.A.
<https://www.scu.edu/engineering/faculty/liu-ying/>



In recent years, visual data has become the dominating internet traffic. With the emerging 5G and internet of things (IoT) technologies, more and more images and videos are generated by edge devices, sent across networks, and analyzed by machines for tasks such as object detection, instance segmentation, and object tracking. While conventional visual coding techniques aim to preserve the pixel-level fidelity or perceptual quality of decoded images and videos, they are not optimal for machine vision tasks. Therefore, efficient visual coding for machines has become an important topic in academia and industry. This panel brings together experts who are working on related problems to discuss the current research and standardization efforts in the area, and generate ideas for future work.

Join Zoom Meeting

<https://scu.zoom.us/j/97551592204?pwd=UFo5bVJQTVBSUWFRMUtYTN5bTIOZz09>

Meeting ID: 975 5159 2204

Password: 914262

Join by phone:

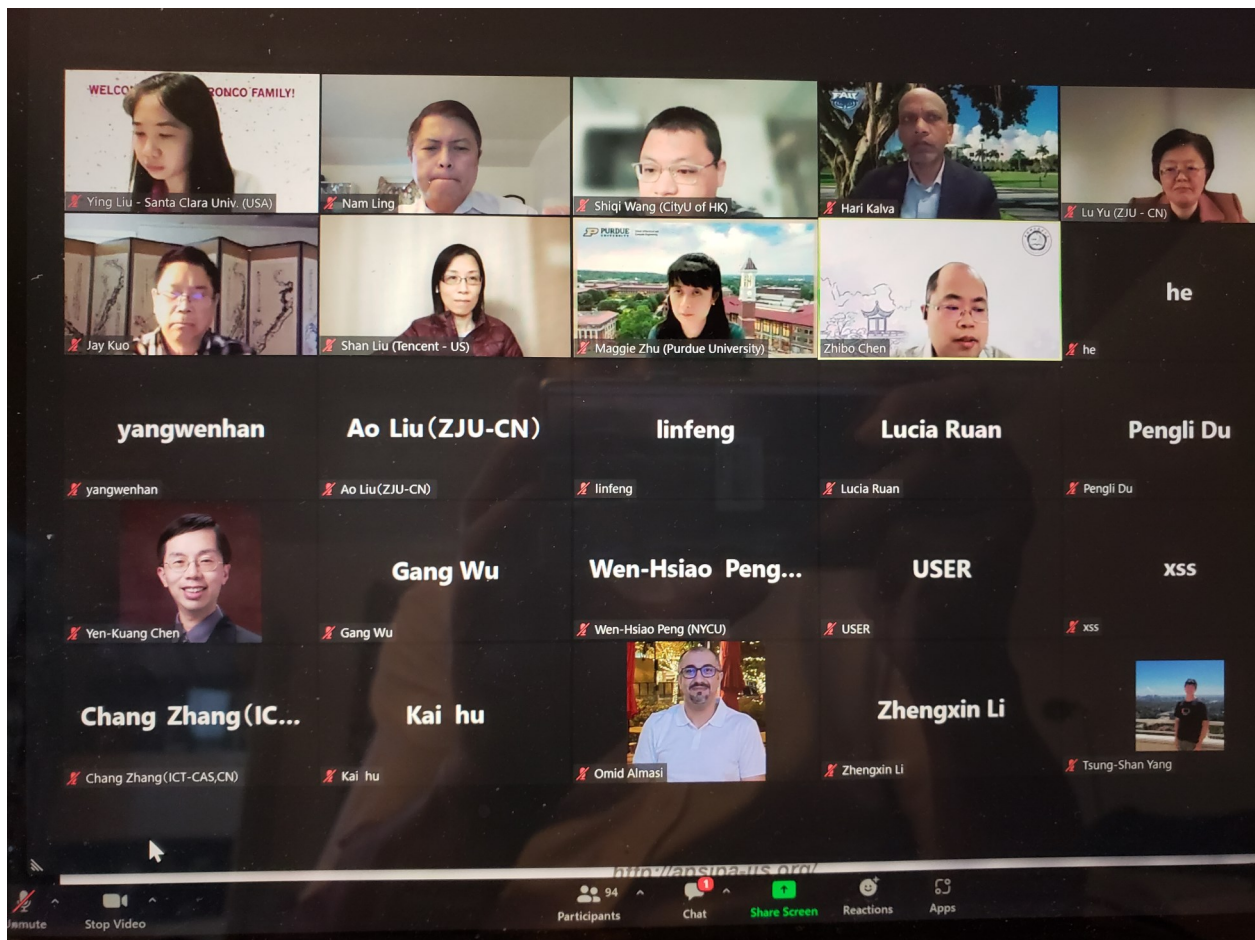
+1 (669) 900-6833

Meeting ID: 975 5159 2204

One tap mobile

+16699006833,,97551592204#

APSIPA US Local Chapter : Visual Coding for Machines



Panel Discussion (March 11, 2023, 5-6:30pm PST, California Time)

Panel Topic: Visual Coding for Machines

The APSIPA U.S. Chapter's panel on visual coding for machines moderated by Ying Liu on 11 March, 2023, was quite successful with 94 participants zoomed in.

Status Update on APSIPA Transactions : The Top 5 Most Cited Papers in 2022

- Volume 11: No.1: No.1, e8.

Recent Advances in End-to-End Automatic Speech Recognition

Jinyu Li

<https://www.nowpublishers.com/article/Details/SIP-2021-00500>

- Volume 11: No.1, e11.

An Overview of Compressible and Learnable Image Transformation with Secret Key and its Applications

Hitoshi Kiya, April Pyone Maung Maung, Yuma Kinoshita, Shoko Imaizumi and Sayaka Shiota

<https://www.nowpublishers.com/article/Details/SIP-2021-0048>

- Volume 11: No.1, e31.

On Supervised Feature Selection from High Dimensional Feature Spaces

Yijing Yang, Wei Wang, Hongyu Fu and C.-C. Jay Kuo

<https://www.nowpublishers.com/article/Details/SIP-2022-0016>

- Volume 11: No.1, e25.

Deep Unsupervised Domain Adaptation: A Review of Recent Advances and Perspectives

Xiaofeng Liu, Chaehwa Yoo, Fangxu Xing, Hyejin Oh, Georges El Fakhri, Je-Won Kang and Jonghye Woo

<https://www.nowpublishers.com/article/Details/SIP-2022-0019>

- Volume 11: No.1, e13.

Onoma-to-wave: Environmental Sound Synthesis from Onomatopoeic Words

Yuki Okamoto, Keisuke Imoto, Shinnosuke Takamichi, Ryosuke Yamanishi, Takahiro Fukumori and Yoichi Yamashita

<https://www.nowpublishers.com/article/Details/SIP-2021-0049>

Status Update on APSIPA Transactions : The Top 10 Downloaded Papers in 2022

- [Recent Advances in End-to-End Automatic Speech Recognition](#) - Jinyu Li
- [Deep Unsupervised Domain Adaptation: A Review of Recent Advances and Perspectives](#) - Xiaofeng Liu, Chaehwa Yoo, Fangxu Xing, Hyejin Oh, Georges El Fakhri, Je-Won Kang and Jonghye Woo
- [The Future of Video Coding](#) - Nam Ling, C.-C. Jay Kuo, Gary J. Sullivan, Dong Xu, Shan Liu, Hsueh-Ming Hang, Wen-Hsiao Peng and Jiaying Liu
- [Recent Advances on Non-Line-of-Sight Imaging: Conventional Physical Models, Deep Learning, and New Scenes](#) - Ruixu Geng, Yang Hu and Yan Chen
- [An Overview of Compressible and Learnable Image Transformation with Secret Key and its Applications](#) - Hitoshi Kiya, April Pyone Maung Maung, Yuma Kinoshita, Shoko Imaizumi and Sayaka Shiota
- [End-to-end Japanese Multi-dialect Speech Recognition and Dialect Identification with Multi-task Learning](#) - Ryo Imaizumi, Ryo Masumura, Sayaka Shiota and Hitoshi Kiya
- [Bridging Gap between Image Pixels and Semantics via Supervision: A Survey](#) - Jiali Duan and C.-C. Jay Kuo
- [The Future of Computer Vision](#) - Jingjing Meng, Xilin Chen, Jürgen Gall, Chang-Su Kim, Zicheng Liu, Alessandro Piva and Junsong Yuan
- [Adjoint Bilateral Filter and Its Application to Optimization-based Image Processing](#) - Keiichiro Shirai, Kenjiro Sugimoto and Sei-ichiro Kamata
- [Onoma-to-wave: Environmental Sound Synthesis from Onomatopoeic Words](#) - Yuki Okamoto, Keisuke Imoto, Shinnosuke Takamichi, Ryosuke Yamanishi, Takahiro Fukumori and Yoichi Yamashita

Status Update on APSIPA Transactions : The Top 5 Most Cited Papers since Launch

- Volume 3: No.1: No.1, e2. (2014)
A tutorial survey of architectures, algorithms, and applications for deep learning
Li Deng
<https://www.nowpublishers.com/article/Details/SIP-014>
- Volume 1: No.1, e3. (2012)
Recent advances on active noise control: open issues and innovative applications
Yoshinobu Kajikawa, Woon-Seng Gan and Sen M. Kuo
<https://www.nowpublishers.com/article/Details/SIP-003>
- Volume 1: No.1, e2. (2012)
An overview on video forensics
Simone Milani, Marco Fontani, Paolo Bestagini, Mauro Barni, Alessandro Piva, Marco Tagliasacchi and Stefano Tubaro
<https://www.nowpublishers.com/article/Details/SIP-002>
- Volume 3: No.1, e14. (2014)
Environmental sound recognition: a survey
Sachin Chachada and C.-C. Jay Kuo
<https://www.nowpublishers.com/article/Details/SIP-026>
- Volume 11: No.1, e13. (2019)
Evaluating word embedding models: methods and experimental results
Bin Wang, Angela Wang, Fenxiao Chen, Yuncheng Wang and C.-C. Jay Kuo
<https://www.nowpublishers.com/article/Details/SIP-124>



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. 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 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.

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
- APSIPA Photo Gallery: <http://www.apsipa.org/photo/photo.htm>

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Department of Electronic and Information Engineering,
The Hong Kong Polytechnic University,
Hung Hom, Kowloon, Hong Kong.

Officers:

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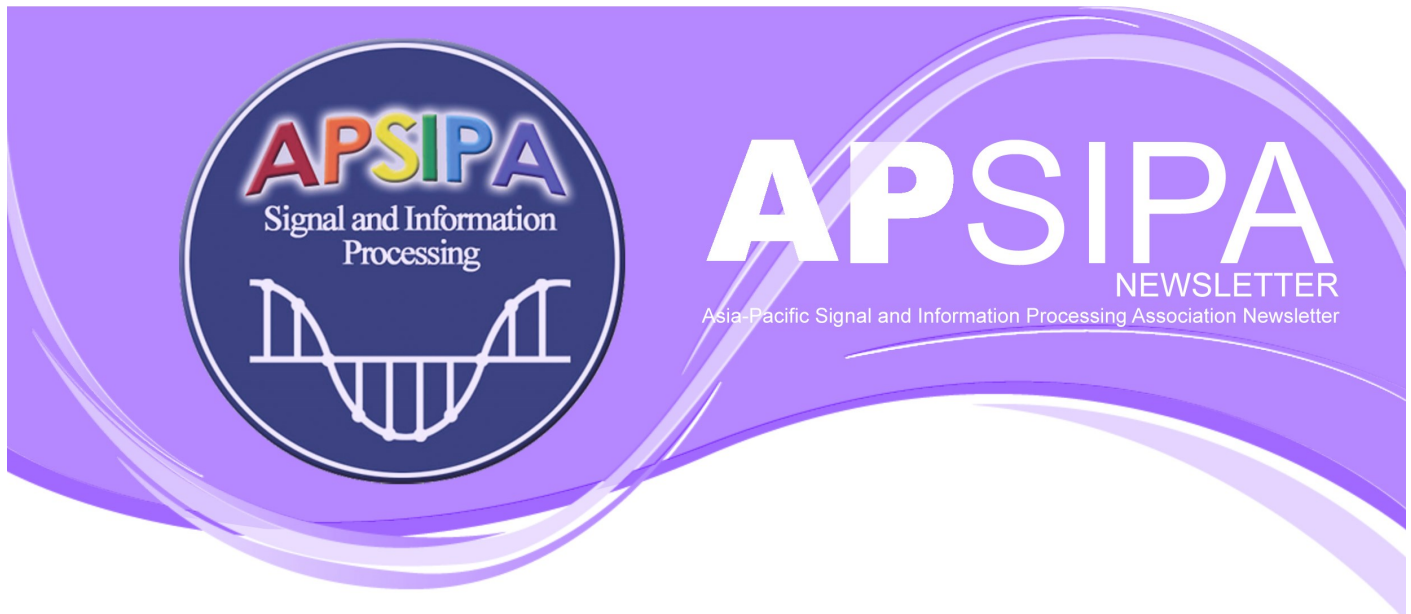
email: enklam@polyu.edu.hk

Secretary: Ngai-Fong Law, Bonnie,

email: ennflaw@polyu.edu.hk

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email: enyhchan@polyu.edu.hk



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<http://www.apsipa.org>