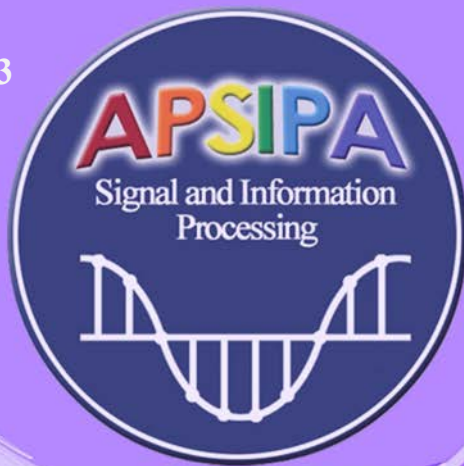


Issue 37  
Jan. 2023



# APSIPA

NEWSLETTER

Asia-Pacific Signal and Information Processing Association Newsletter

## Greetings!

Welcome to the January issue of the APSIPA newsletter!

I hope you remember the joyful things filled with laughter last year. And I wish you success and blessings in your homes and workplaces.

First of all, Professor Anthony Kuh, who worked hard as the president for the development of our society, finished his term in 2022. Let's applaud him for his sincere leadership in steering the APSIPA Society. We could see his passion for holding the BoG meeting at APSIPA ASC 2022 even after 9:00 pm.

In 2023, the new president, Professor Tatsuya Kawahara, will lead the APSIPA Society with President Elect Professor Woon-Seng Gan. In this letter, we shall announce their greetings. Moreover, at the APSIPA ASC 2022, we had a special session devoted to the life and achievements of Prof. Sadaoki Furui. Along with his photos, it was time for us to know how he formed the APSIPA Society in the early days and what contributions he made. I believe it was a touching event that became a model for all the members participating in the society.

Our society's most important event, APSIPA ASC 2022, was held very successfully. Chiang Mai was relatively safe from the corona, so we had time to share a lot of exchanges with each other comfortably. In particular, we had a great time together during the Plenary Talk and Banquet, and the presentations in each session went smoothly. A summary of APSIPA ASC 2022 written by Prof. Nipon Theera-Umpon, General Chair of APSIPA ASC 2022, was introduced. I would like to express thanks to him for making this letter a more meaningful issue.

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

Please enjoy reading this issue! Happy New Year!

Sanghoon Lee



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## Message from APSIPA President

It is my great honor to serve as the President of APSIPA from 2023. As you know, APSIPA was founded about 15 years ago. I am not among the founding members (maybe I am the first President who is not a founding member), but I have been engaged in many roles, such as TC chair, DL, VP, and EiC of the T-SIP. In the beginning, I had a naive question in my mind. Why do we have another conference in addition to ICASSP, InterSpeech, ICIP, and so on? What is the identity (Raison d'être) of APSIPA? I found the answer as I have attended all conferences since 2009. When we attend big conferences such as ICASSP, there are so many people, but we attend only focused sessions and meet people in our expertise, in my case, automatic speech recognition and spoken dialogue systems. On the other hand, in APSIPA ASC, we can review many areas and meet people (many key persons!) in all areas of signal and information processing. It is like a family, and we feel at home during the conference. And this community network is invaluable. That is why the large majority of the people chose to attend in-person to ASC 2022 in Chiang Mai rather than attending virtually.

My mission as the President is to enlarge this family with more activity. Specifically,

1. Keep growing the conference. We received a very high number of paper submissions and attendees as we recover from the pandemic. ASC 2023 will be in Taipei, and ASC 2024 will be in Macao.
2. Keep growing the publications. APSIPA Transactions on Signal and Information Processing (T-SIP) will get indexed with Impact Factor. The APSIPA Book Series is launched.
3. Reach out to developing countries which are still under-represented. We will organize seminars and seasonal schools. We will set up a scheme of financial support for attending ASCs.
4. Enhance the diversity and networks in the members, such as female researchers, young researchers, and local chapters.

Encourage technical activities and education programs to be aligned with the above missions.

Last July, we lost our founding President, Sadaoki Furui. In October, I visited his home with Ray Liu and Hitoshi Kiya to give our condolence to his family. We remember much about him and that he cared about APSIPA so much. When I was nominated to be President-elect two years ago, I was hesitant but pushed forward by these people. I am much more inexperienced than the predecessors, but will be able to manage much more easily as I have a big heritage of the past 15 years. In my term of two years, I will try my best to make APSIPA better than now. Your support will be appreciated.

Best Regards

Tatsuya Kawahara

APSIPA President (2023-2024)

Email: [kawahara@i.kyoto-u.ac.jp](mailto:kawahara@i.kyoto-u.ac.jp)



## Messages from APSIPA President-Elect

It is my greatest honor to be selected as the President-elect of the Asia Pacific Signal and Information Processing Association (APSIPA) for 2023-2024! Thanks to the Board of Governor and Advisory Board for the trust and confidence in me in taking up this important role in leading the APSIPA community. I will do my best in working closely with the President, Professor Tatsuya Kawahara and past Presidents of APSIPA, Professor Anthony Kuh, and all APSIPA board members to promote and lead new initiatives and activities in our APSIPA community.

While writing this message, I was on my way back from the 14<sup>th</sup> APSIPA Annual Summit and Conference (ASC) in the beautiful city of Chiang Mai, Thailand. The Chiang Mai's ASC also marked the first time we are transiting out of the covid pandemic and hosting an in-person conference after two years of hiatus. I was excited to meet so many friends and new participants in Chiang Mai, and realized how much we have missed face-to-face interactions. We must thank the hosts, Professor Kosin Chamnongthai and Professor Nipon Theera-Umpon for organizing such a wonderful event and kick-starting our transition back to an in-person ASC! Looking back at the many past APSIPA ASCs I had attended, APSIPA truly has a unique characteristic of being a close-knit community with many participants attending yearly and forming a close network of friends. We want to build upon this APSIPA spirit and create more opportunities and platforms for further collaboration within our APSIPA community.

This year ASC also hosted a memorial event to remember the passing of our founding president, Professor Sadaoki Furui, who started APSIPA some 15 years ago. We are all grateful for his vision and mission to set up this signal and information society that belongs to the Asia Pacific region and promotes technological advances in the fastest-growing region in the world. APSIPA plays an important role in bringing together academic researchers, industry experts, educators, and students to exchange knowledge and disseminate research results, network, and collaboration, and serve as a platform for regional researchers and students to shine and share their R&D findings and promote diversity in Signal and Information Processing in the Asia-Pacific region. Professor Sadaoki Furui will be greatly missed by our APSIPA community, but his great legacy will live on for many years to come! We will continue his mission to grow APSIPA!

I strongly believe that with the end of the pandemic in sight, our APSIPA community can grow even stronger with more opportunities to meet and share ideas and expertise. The success of APSIPA depends on everyone's involvement to organize activities, developing new initiatives, promoting cross-disciplinary and cross-cultural research, and extending our outreach to the under representatives.

Lastly, we want to listen to all of your views and comments on how we can make APSIPA events more interesting and address key innovative technologies to advance humanity, so as to attract more attention from academics, researchers, and industry specialists worldwide and make the APSIPA community an internationally-known SIP society. Please feel free to email us your thought.

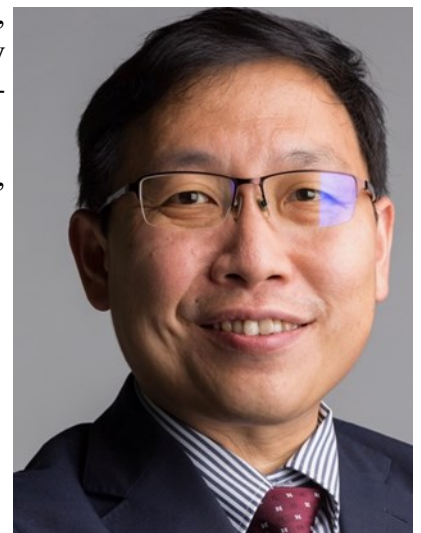
I wish everyone great health, enjoy the great SIP research and collaboration, and participate in our APSIPA ASC and chapters' events in the new year!

Best Regards

Woon-Seng Gan

APSIPA President Elect (2023-2024)

Email: [ewsgan@ntu.edu.sg](mailto:ewsgan@ntu.edu.sg)



## APSIPA ASC 2022 Recap

The 2022 version of Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2022) has been successfully finished. This year ASC was held in Chiang Mai, the capital of the ancient Lanna Kingdom dated back over 700 years. APSIPA ASC 2022 is our first face-to-face ASC after the beginning of COVID-19. The committee decided to have the ASC in presence so that we can get back to normal life. However, we allowed video presentations by the participants who could not come in person due to restrictions established by their countries or institutions.

This year ASC provided the broad spectrum of activities like previous years. It is our great honor to welcome 3 keynote speakers:- Kyoung Mu Lee, Weisi Lin, and Dong Yu. For the general track, there were technical sessions on 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; and Signal and Information Processing for Smart Systems. On top of that, APSIPA ASC 2022 provided 23 special sessions, 4 tutorials, and 1 industrial forum. There were 7 lectures for Winter School and Distinguished Lecturer Program. The APSIPA Sadaoki Furui Prize Paper Award was announced during the ASC. There was also a Special Memorial Event for Prof. Sadaoki Furui, APSIPA Founding President. The APSIPA social events including Board of Governors (BoG) Meeting, Technical Committee (TC) Meetings, Annual General Meeting (AGM), and APSIPA Women Luncheon were arranged.

Even in the uncertain time period due to the pandemic, APSIPA ASC 2022 still attracted 496 submissions in which 360 of those were accepted. There were more than 400 participants registered, and almost 100 staff and student helpers working behind the scenes.

We would like to thank Google, Huawei, and Thailand Convention & Exhibition Bureau (TCEB) for the financial sponsorships. The technical sponsors this year include Chiang Mai University, IEEE Signal Processing Society, IEEE Thailand Section, IEEE Computer Society (Thailand Chapter), and Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology Association of Thailand.

Finally, we would like to thank all of committee members, staff, and student helpers who make this ASC possible. Your tirelessly work and efforts to prepare and host our ASC during the past several months till now are recognized. Last but not least, we would like to express our appreciation to all participants for your supports, whether those who could make it to Chiang Mai or joined us online. We could not complete this ASC without your supports.

General Co-Chairs, APSIPA ASC 2022

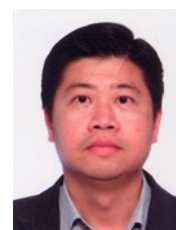
Nipon Theera-Umpon

Kosin Chamnongthai

Toshihisa Tanaka

Anthony Kuh

Kenneth Kin-Man Lam



## APSIPA ASC 2022 in Photos



APSIPA Sadaoki Furui Prize Paper Award



Keynote Session



Prof. Sadaoki Furui Special Memorial Event



Regular Session



Regular Session Presentation



Coffee Break

## APSIPA ASC 2022 in Photos



APSIPA Best Paper Awards



Welcome Dinner Performance



Welcome Dinner Performance



Welcome Dinner



Welcome Dinner

## APSIPA ASC 2022 in Photos



APSIPA BoG Meeting



APSIPA BoG Meeting



# 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 14, 2023	June 14, 2023	August 2, 2023	August 23, 2023	August 30, 2023
Submission of Special Session Proposal	Submission of Proposals for Forum, Panel and Tutorial	Submission of Regular Paper	Submission of Special Session Paper	Notification of Paper Acceptance	Submission of Camera Ready Paper	Early Bird Registration

### INTRODUCTION

APSIPA ASC 2023 ([www.apsipa2023.org](http://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](http://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

**[www.apsipa2023.org](http://www.apsipa2023.org)**

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## **APSIPA 2022 Winter School/Distinguished Lectures**

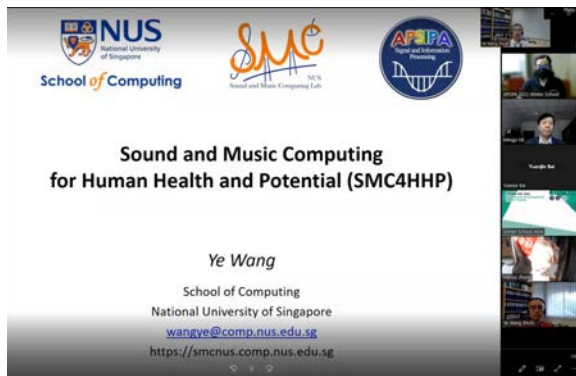
2022 APSIPA Winter School and Distinguished Lectures (WS-DL) was held on November 7, 2022, in Chiang Mai, Thailand, in an online and onsite hybrid form. About 300 attendees participated. Vice president (IRE) of APSIPA, WS-DL chair, Prof Mingyi HE from Northwestern Polytechnical University, introduced the background and objective of the event. WS-DL chair, Prof Sansanee Auephanwiriyakul from Chiang Mai University chaired the WS-DL.

The theme of this Winter School/ Distinguished Lectures is on Intelligent Signal and Information Processing with Applications. The main titles and speakers are: “Speech and Music Information Processing for Human Health and Potential” by Prof Ye Wang from Singapore, “Trainable Subspaces for Tensor Completion” by Prof Yipeng Liu from China, “Automated Landslide-Risk Prediction based Extreme Class-Imbalance Dataset using Two-Stage-Transfer Learning” by Prof Naruephorn Tengtrairat from Thailand, “Fine-grained Human Action Recognition” by Prof Zhiyong Wang from Australia, “High Framerate Video Generation from Rolling Shutter Cameras and Event Cameras” by Prof Yuchao Dai from China, “Applications of localised AI technology in Thailand” by Dr Thanawat Thiasiriphet from Thailand, and “Learning based Methods for Hyperspectral Big Data Processing” by Prof Mingyi He from China. The talks cover various topics on the intelligent learning methods (including neural network, tensor, transfer learning, deep learning, etc) with applications to video processing, tensor completion, human action recognition, speech and music information processing, landslides prediction, hyperspectral bigdata processing, and localized services etc.

APSIPA President, Professor Anthony Kuh from Hawaii Univ, attended the closing ceremony in Chiang Mai and highly praised the successful holding of the 2022 APSIPA Winter School and Distinguished Lectures (WS-DL). The 2022 APSIPA WS-DL has following outstanding features: Distinctive features of the intelligent SIP theme era, Speakers high skilled presentation, Combination of academy with technology and universities with industries, Good organizational ability and attractiveness. In order to leave long-term memory of APSIPA for participants, the organizers also designed and sent a special certificate to those at least attended 5 talks. The 7 talks were recorded as video to be kept in APSIPA video archive.

This Winter School/ Distinguished Lectures is sponsored by APSIPA, co-sponsored by APSIPA - Distinguished Lecturer Program and Chiang Mai University, and hosted by the Biomedical Engineering Institute of Chiang Mai University, Thailand.

## APSIPA 2022 Winter School/Distinguished Lectures



Prof Ye Wang



Prof Mingyi He



Prof Naruephorn Tengtrairat



Prof Zhiyong Wang



Onsite 1



Onsite 2



Onsite 3



Certificate example

## APSIPA and CCF Joint Lectures: Frontiers in Intelligent Vision

To develop and build relations with existing societies, universities and associations within each affiliated country or region, APSIPA and CCF (China Computer Federation ) had a joint lectures on September 29, 2022, onsite in NPU (Northwestern Polytechnical Univ, Xi'an, China) and online live broadcast platform with link of “<https://live.bilibili.com/22339632>”. This joint lectures program was sponsored by CCF Computer Vision Committee series lectures program and APSIPA Education Program (Distinguished Lecturer Program - DL), with co-sponsor from NPU. Over 1200 professors, researchers and students in signal and information processing community, especially in intelligent vision field, joined this joint lectures.



Opening speech by VP, Prof Mingyi He

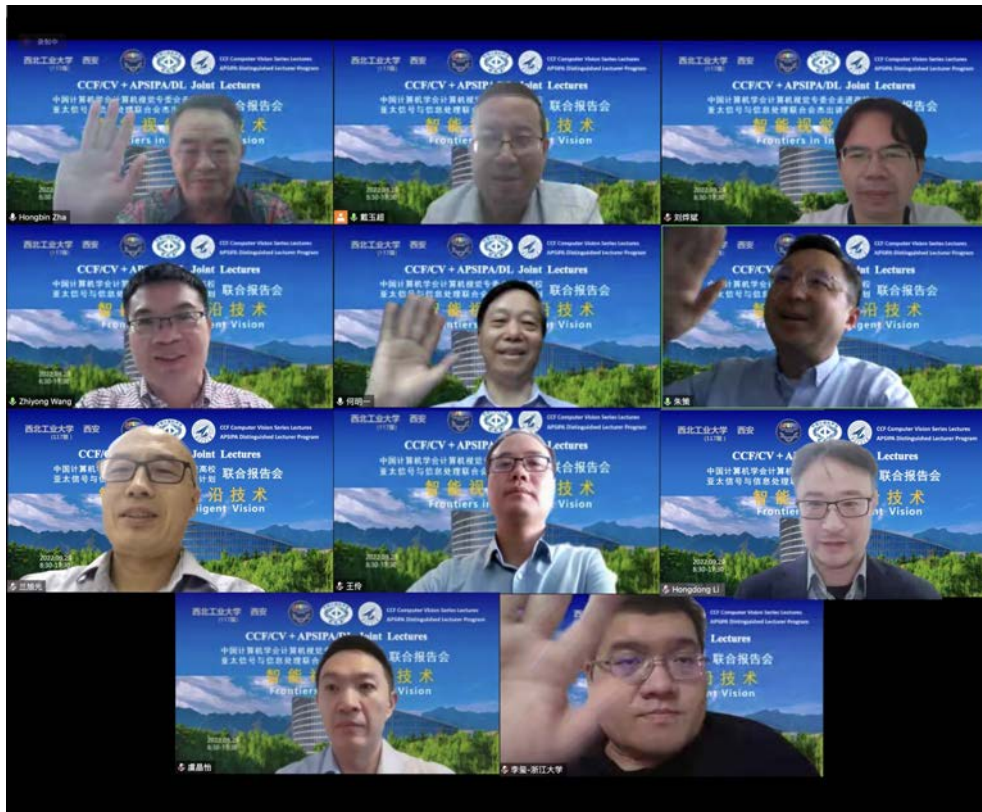


One onsite at NPU

This joint event was proposed and organized by APSIPA VP (Institutional Relations and Education Program), Professor Mingyi He; chaired by Prof Yuchao Dai (a CCF CV committee member and APSIPA DL); and hosted by IAP (Shaanxi International research center and key laboratory of Information Acquisition and Processing) and School of Electronics and Information, Northwestern Polytechnical Univ, China.

The main theme of this joint lectures is "Frontiers in Intelligent Vision". 8 invited outstanding lectures had gave following talks. “Learning to create digital human via neural modeling and rendering” by Prof Jingyi Yu from Shanghai Univ of Sci. and Tech., China), “Multi-view 3D vision modeling of non- diffuse complex material objects” by Prof Hongdong Li from Australia National Univ (Australia), “Machine learning counterattack based on substitute model: do need real training samples?” by Prof Ce Zhu from the Univ of Electronic Sci. and Tech. of China (China), “Visual structure modeling and feature learning” by Prof Xi Li from Zhejiang Univ (China), “Key technologies of neural rendering digital human: dynamic capture, reconstruction and generation” by Prof Yebin Liu from Tsinghua Univ (China), “Challenge of robotic autonomous work: causal reasoning and learning” by Prof Xuguang Lan from Xian Jiaotong Univ (China), “Dynamic vision and SLAM: an approach to online learning” by Prof Hongbin Zha from Peking Univ (China), and “Recent Advances on Video Summarization by Prof Zhiyong Wang from the Univ of Sydney (Australia). The lecture contents include many aspects of intelligent vision frontiers, including the acquisition, reconstruction and rendering of 3D information, video processing and summarization, deep learning and counterattack, virtual reality and meta universe, robot vision and autonomous work.

## APSIPA and CCF Joint Lectures: Frontiers in Intelligent Vision



Invited guests and speakers in one view.

(from top-left: Hongbin Zha, Yuchao Dai, Yebin Liu, Zhiyong Wang, Mingyi He, Ce Zhu, Xuguang Lan, Ling Wang, Hongdong Li, Jingyi Yu, Xi Li)

Prof Ce Zhu and Prof Zhiyong Wang are current APSIPA DLs (Distinguished Lecturers). APSIPA DL, Professor Zhanyu Ma from Beijing Univ of Posts and Telecommunications, China, has made a special support as the secretary general of CCF CV committee which has over active 300 members. APSIPA DL, Professor Yuchao Dai, a host representative, chaired the lectures.

This event is the first cooperation between APSIPA and CCF, through APSIPA Education Program/Distinguished Lecturer Program and CCF Computer Vision Series lectures.

## APSIPA Distinguished Lecturer Program

### DL Lectures in 2022

- Speaker** **Prof Shang-Ho Tsai**, *Nat Yang Ming Chiao Tung Univ*  
Title Physical Beam Sharing in mm Wave Communications and over-the-air Testing  
Time/Venue Jan 4, 2022/Zhongshan (Online)  
Local host Institute of Communications Engineering, National Sun Yat-sen University
- Speaker** **Prof Fei Chen**, Southern Univ of Sci and Tech  
Title AI-driven brain computer interfaces for improving speech communication  
Time/Venue Mar 22, 2022/Shenzhen  
Local host 2022 China-Japan Artificial Intelligence for Innovation Conference
- Speaker** **Prof Fei Chen**, Southern Univ of Sci and Tech  
Title Improving human speech communication via brain-computer interface technologies  
Time/Venue Mar 25, 2022/Hong Kong  
Local host 2022 International Conference on Smart Health Technology
- Speaker** **Prof Zhanyu Ma**, Beijing Univ of Posts and Telecom  
Title Statistical Model-based Optimization Method for Deep Neural Networks  
Time/Venue Apr 2, 2022/Beijing (Online)  
Local host Beijing Normal University
- Speaker** **Prof Zhanyu Ma**, Beijing Univ of Posts and Telecom  
Title Preliminary Study of Fine-grained Visual Classifications  
Time/Venue Apr 2, 2022/Shanghai (Online)  
Local host Tongji University
- Speaker** **Prof Zhanyu Ma**, Beijing Univ of Posts and Telecom  
Title Statistical Model-based Optimization Method for Deep Neural Networks  
Time/Venue Apr 2, 2022/Changsha (Online)  
Local host National University of Defense Technology
- Speaker** **Prof Fei Chen**, Southern Univ of Sci and Tech  
Title Auditory attention detection with a segmented decoding model  
Time/Venue Apr 9, 2022/Guangzhou (Online)  
Local host 2022 Southern Auditory Medicine Summit (SAMS 2022)
- Speaker** **Prof Ce Zhu**, Univ of Electronic Science and Tech of China  
Title Video Coding Optimization: Challenges and Recent Developments  
Time/Venue Aug. 20, 2022/Chengdu (Online)  
Local host The 5th International Conference on Pattern Recognition and Artificial Intelligence

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## APSIPA Distinguished Lecturer Program

### DL Lectures in 2022

- Speaker** **Prof Ronald Chang**, *Academia Sinica*  
**Title** Reconfigurable Intelligent Surface (RIS) Assisted Communication  
**Time/Venue** Aug 23, 2022/Taipei (Online)  
**Local host** Prof Chun-Tao Lin, National Taipei University of Technology
- Speaker** **Prof Zhanyu Ma**, Beijing Univ of Posts and Telecom  
**Title** A preliminary exploration of fine-grained image classification  
**Time/Venue** Aug 26, 2022/Wuxi  
**Local host** Jiangsu Artificial Intelligence Society, Jiangnan University
- Speaker** **Prof Zhanyu Ma**, Beijing Univ of Posts and Telecom  
**Title** Deep neural network optimization based on probabilistic model representation  
**Time/Venue** Aug 26, 2022/Wuxi  
**Local host** Jiangsu Artificial Intelligence Society, Jiangnan University
- Speaker** **Prof Ronald Chang**, *Academia Sinica*  
**Title** Deep Learning-Based Wireless Indoor Localization: Design and Interpretation  
**Time/Venue** Sep 7, 2022/Taipei (Online)  
**Local host** Prof Chun-Tao Lin, National Taipei University of Technology
- Speaker** **Prof Ce Zhu**, Univ of Electronic Science and Tech of China  
**Title** Substitute Training for Black-Box Adversarial Attacks: A GAN-based Approach without Any Real Training Data  
**Time/Venue** Sept. 29, 2022/Xian (Online)  
**Local host** Northwestern Polytech Univ, APSIPA DL/CCF-CV Joint Lectures
- Speaker** **Prof Zhiyong Wang**, Univ of Sydney  
**Title** Recent Advances on Video Summarization  
**Time/Venue** Sept 29, 2022/Xian (Online)  
**Local host** Northwestern Polytech Univ, APSIPA DL/CCF-CV Joint Lectures

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## APSIPA Distinguished Lecturer Program

### DL Lectures in 2022

- Speaker** **Prof Ronald Chang**, *Academia Sinica*  
Title Reconfigurable Intelligent Surface (RIS) Assisted Communication  
Time/Venue October 24, 2022/Princeton University  
Local host Prof H. Vincent Poor, Princeton University
- Speaker** **Prof Yuhong Liu**, *Santa Clara University*  
Title Trust and Privacy Attacks and Defenses in Online Social Networks  
Time/Venue 25 October, 2022/Singapore  
Local host NTU Singapore
- Speaker** **Prof Kazuyoshi Yoshii**, *Kyoto Univ*  
Title A Statistical Approach to Proteomic Mass Spectrogram Analysis  
Time/Venue Nov 11, 2022/Bangkok, Thailand  
Local host Chulalongkorn University
- Speaker** **Prof Shang-Ho Tsai**, *Nat Yang Ming Chiao Tung Univ*  
Title Physical Beam Sharing with Applications over Low Earth Orbit Satellite Communications  
Time/Venue Dec. 2, 2022/Hsinchu City  
Local host National Tsing Hua University
- Speaker** **Prof Simon Pun**, *The Chinese University of Hong Kong, Shenzhen*  
Title Multi-modal Data Fusion-based Big Data Techniques for Remote Sensing  
Time/Venue Dec 27, 2022 (Online)  
Local host Sichuan University

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**APSIPA Education Program**  
**Winter School (DL Lectures) in**  
**Nov 7, 2022, Chiang Mai, Thailand**

- |                  |   |
|------------------|---|
| <b>Lecture 1</b> | Speech and Music Information Processing for Human Health and Potential                                      |
| <b>Speaker</b>   | <b>Prof. Ye Wang</b> , National University of Singapore, Singapore  |
| <b>Lecture 2</b> | Trainable Subspaces for Tensor Completion   |
| <b>Speaker</b>   | <b>Prof. Yipeng Liu</b> , Univ of Electronic Science and Tech of China, China                               |
| <b>Lecture 3</b> | Automated Landslide-Risk Prediction based Extreme Class-Imbalance Dataset using Two-Stage-Transfer Learning |
| <b>Speaker</b>   | <b>Prof. Naruephorn Tengtrairat</b> , Payap University, Thailand  |
| <b>Lecture 4</b> | Fine-grained Human Action Recognition   |
| <b>Speaker</b>   | <b>Prof. Zhiyong Wang</b> , The University of Sydney, Australia.  |
| <b>Lecture 5</b> | High Framerate Video Generation from Rolling Shutter Cameras and Event Cameras                              |
| <b>Speaker</b>   | <b>Prof. Yuchao Dai</b> , Northwestern Polytechnical University, China                                      |
| <b>Lecture 6</b> | Applications of localised AI technology in Thailand   |
| <b>Speaker</b>   | <b>Dr. Thanawat Thiasiriphet</b> , iBotnoi Co. LTD, Thailand  |
| <b>Lecture 7</b> | Learning based Methods for Hyperspectral Big Data Processing  |
| <b>Speaker</b>   | <b>Prof. Mingyi HE</b> , Northwestern Polytechnical University, China                                       |

## **APSIPA Industrial Distinguished Leaders, Class of 2022**

**By APSIPA Industrial Governance Board (IGB) Chairs**

**Dr. Seishi Takamura, VP - Industrial Relations and Development, IGB Chair**

**Dr. Ning Xu, Deputy VP - Industrial Relations and Development, IGB Deputy Chair**

**Dr. Zhou Ren, IGB Industrial Publication Committee Chair**

**Dr. Cheng-Kuang Lee, IGB Industrial Membership Committee Chair**

**Dr. Toshihiko Sugie, IGB Industrial Forum Committee Chair**

The APSIPA Industrial Distinguished Leader (IDL) is a distinction reserved for selected APSIPA members (or potential members) whose extraordinary accomplishments in any of the fields related to APSIPA scope are deemed fitting of this prestigious recognition. APSIPA Industrial Governance Board members nominate qualified IDL candidates, who have a job title as VP or above, or are Fellow of professional organizations like IEEE, ACM etc., and finally select and award IDLs if they match our criteria (contributing an invited position paper APSIPA TSIP and have that accepted, or contributing an invited talk at an APSIPA's Industry Forum). APSIPA has set up this award since 2014. The APSIPA IDL is targeted to very selective industrial leaders who have made significant contributions and is a distinction reserved for selected APSIPA members (or potential members) whose extraordinary accomplishments in any of the fields related to APSIPA scope are deemed fitting of this prestigious recognition.

The APSIPA IDL nomination and selection processes are held twice a year. Past recipients can be found at <http://www.apsipa.org/industrial.htm#IDL>. In 2022, three people were selected as the recipients of APSIPA IDL.

### **Class of 2022 Spring**

- Xiaoyu Wang, Cofounder & Chief Scientist, Intellifusion Technologies

### **Class of 2022 Fall**

- Yanzhi Wang, Northeastern University, Chairman and former CEO of CoCoPIE Inc., USA
- Shuhao Wang, Co-founder and CTO of Thorough Future

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**Dr. Xiaoyu Wang, Cofounder & Chief Scientist, Intellifusion Technologies**

Title of APSIPA Transactions on Signal and Information Processing invited position paper: “Deep Active Learning for Computer Vision: Past and Future”

Activities and biography:



Dr. Xiaoyu Wang currently serves as Chief Scientist at Intellifusion Technologies. Previously he was a founding member of Snap Research and served as Chair of Computer Vision from 2015 to 2017. Prior to joining Snapchat, Xiaoyu was a Research Staff Member at NEC Labs America. He obtained his Ph.D. from University of Missouri in Electrical and Computer Engineering in 2012. At the same time, he obtained his M.A. degree in Statistics from University of Missouri. He did one internship at IBM T.J. Watson Research Center and two at NEC Labs America. Before joining University of Missouri, He received a B.S. in Electrical Engineering and Information Science from University of Science and Technology of China in 2006.

**Prof. Yanzhi Wang, Northeastern University, Chairman and former CEO of CoCoPIE Inc.**

Title of APSIPA ASC 2022 Industrial Forum Lecture: “Towards Best Possible Deep Learning Acceleration on the Edge – A Compression-Compilation Co-Design Framework”

Activities and biography:



Yanzhi Wang is currently an associate professor and faculty fellow at Dept. of ECE at Northeastern University, Boston, MA. He received the B.S. degree from Tsinghua University in 2009, and Ph.D. degree from University of Southern California in 2014. His research interests focus on model compression and platform-specific acceleration of deep learning applications. His work has been published broadly in top conference and journal venues (e.g., DAC, ICCAD, ASPLOS, ISCA, MICRO, HPCA, PLDI, ICS, PACT, ISSCC, AACL, ICML, NeurIPS, CVPR, ICLR, IJCAI, ECCV, ICDM, ACM MM, FPGA, LCTES, CCS, VLDB, PACT, ICDCS, RTAS, Infocom, C-ACM, JSSC, TComputer, TCAS-I, TCAD, TCAS-I, JSAC, TNNLS, etc.), and has been cited above 12,000 times. He

has received six Best Paper and Top Paper Awards, and one Communications of the ACM cover featured article. He has another 12 Best Paper Nominations and four Popular Paper Awards. He has received the U.S. Army Young Investigator Program Award (YIP), IEEE TC-SDM Early Career Award, Massachusetts Acorn Innovation Award, Martin Essigmann Excellence in Teaching Award, Massachusetts Acorn Innovation Award, Ming Hsieh Scholar Award, and other research awards from Google, MathWorks, etc. He has received 22 federal grants from NSF, DARPA, IARPA, ARO, ARFL/AFOSR, etc. He has participated in a total of \$40M funds with personal share \$8.5M. Six of his former Ph.D./postdoc students become tenure track faculty at Univ. of Connecticut, Clemson University, Chongqing University, Beijing University of Technology, Texas A&M University, Corpse Christi, and Cleveland State University.

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**Dr. Shuhao Wang, Co-founder and CTO of Thorough Future**

Title of APSIPA ASC 2022 Industrial Forum Lecture: “Empowering future pathology with artificial intelligence”

Activities and biography:



Doctor Shuhao Wang, the co-founder and CTO of Thorough Future, has a Ph.D. from Tsinghua University, was a postdoctoral fellow at the Institute for Interdisciplinary Information Sciences, Tsinghua University, and an assistant researcher at Baidu, NovuMind, and JD, and has more than 20 national patents, and has published many academic papers in top journals/conferences such as Nature Communications, Modern Pathology, ICCV, etc. He received the Elite Award of “30 New Generation Digital Economy Talents” at the World Internet Conference 2019. Dr. Shuhao Wang has extensive experience in the implementation of cutting-edge AI techniques and has a background in medical AI research for many years.



**APSIPA Forum on  
Intelligent Low-Complexity, Low-Power Visual Signal Processing Systems**

**Date:** December 1 (Thursday), 2022

**Time:** 15:30 – 16:30 Taiwan (UTC+8); 08:30 – 09:30 Germany (UTC+1)

**Moderator:** Prof. Kun-Chih Chen (NSYSU, Taiwan)

**Speakers:** Prof. Wen-Hsiao Peng (NYCU, Taiwan); Prof. Heming Sun (Waseda Univ., Japan);  
Dr. Christian Herglotz (FAU, Germany)

**Organizer:** Prof. Wen-Hsiao Peng (NYCU, Taiwan)

This APSIPA forum organized by APSIPA Taiwan Local Chapter aims to raise the awareness of the complexity and practicality issues of visual signal processing systems. The last few years witnessed the explosive growth of artificial intelligence-based visual signal processing systems. Much research effort was invested to demonstrate the full potential of learning-based and/or hand-crafted techniques. As algorithms with high accuracy and high performance are becoming exceedingly more complex, it is time to consider their hidden aspects, particularly from the perspectives of Algorithm/Architecture Co-exploration, in order to facilitate low-complexity and low-power designs. Taking video coding and streaming technologies as examples, this forum invites three honorable speakers to share their views on the practicality issues of learned image/video compression, the real-time FPGA implementation for learned image codecs, and energy-efficient video streaming.

Schedule Detail (15:30 – 16:30, Taiwan)

15:30 – 15:33 Opening Remarks

15:33 – 15:50 Towards Practical Learned Image and Video Compression by Prof. Wen-Hsiao Peng

15:50 – 16:10 Real-time Learned Image Codec on FPGA by Prof. Heming Sun

16:10 – 16:30 Energy Optimizations in Client-Side Video Streaming by Dr. Christian Herglotz

**Join Zoom Meeting:** <https://bit.ly/3OzaioQ>

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**Talk #1:** Towards Practical Learned Image and Video Compression

**Speaker:** Prof. Wen-Hsiao Peng, National Yang Ming Chiao Tung University, Taiwan

**Abstract:** Learning-based image/video coding, particularly end-to-end learned image/video coding, is showing great promise for many emerging applications, e.g. perceptual compression for realism, extreme low-rate compression, application-specific image/video compression, and compression for hybrid human and machine vision. This fast growing research area has attracted more than 100+ publications in the literature, with the state-of-the-art methods showing comparable or even better compression results than H.266/Versatile Video Coding (VVC). However, there are many hidden aspects related to learned image/video coding that have not yet been given enough attention as they should. In this talk, I shall provide an overview of recent developments in this area. I shall also touch upon issues and challenges faced by learned codecs, particularly their complexity characteristics in terms of algorithmic-intrinsic metrics. Last but not least, I will mention some notable works that serve as signposts to further research.

**Short-bio:** Dr. Wen-Hsiao Peng received his Ph.D. degree from National Chiao Tung University (NCTU), Taiwan, in 2005. He was with the Intel Microprocessor Research Laboratory, USA, from 2000 to 2001, where he was involved in the development of ISO/IEC MPEG-4 fine granularity scalability. Since 2003, he has actively participated in the ISO/IEC and ITU-T video coding standardization process and contributed to the development of SVC, HEVC, and SCC standards. He was a Visiting Scholar with the IBM Thomas J. Watson Research Center, USA, from 2015 to 2016. He is currently a Professor with the Computer Science Department, National Yang Ming Chiao Tung University, Taiwan. Dr. Peng was Chair of the IEEE Circuits and Systems Society (CASS) Visual Signal Processing (VSPC) Technical Committee from 2020 to 2022. He was Distinguished Lecturer of APSIPA and the IEEE CASS.



**Talk #2:** Real-time Learned Image Codec on FPGA

**Speaker:** Prof. Heming Sun, Waseda University, Japan



**Abstract:** Learned image compression (LIC) has reached a superior coding gain than traditional hand-crafted standards such as JPEG. To accelerate the coding speed, most LIC frameworks are operated on GPU with the floating-point arithmetic. However, the mismatch of floating-point calculation results on various hardware platforms will cause the decoding error if encoding and decoding are performed on different platforms. Therefore, LIC with a fixed-point arithmetic is highly required. This work presents an FPGA design for a LIC with 8-bit fixed-point quantization. Compared with the state-of-the-art FPGA-based LIC implementation, our system can reach 5x faster decoding speed.

**Short-bio:** Dr. Heming Sun received the B.E. degree in electronic engineering from Shanghai Jiao Tong University, Shanghai, China, in 2011, and received the M.E. degree from Waseda University and Shanghai Jiao Tong University, in 2012 and 2014, respectively, through a double-degree program. In 2017 he earned his Ph.D. degree from Waseda University, where he is currently an assistant professor. He was a researcher at NEC Central Research Laboratories from 2017 to 2018. He is selected as JST PRESTO Researcher, during 2019 to 2023. His interests are in algorithms and VLSI architectures for image/video processing and neural networks.



**Talk #3:** Energy Optimizations in Client-Side Video Streaming

**Speaker:** Dr. Christian Herglotz, Friedrich-Alexander University Erlangen-Nürnberg (FAU), Germany

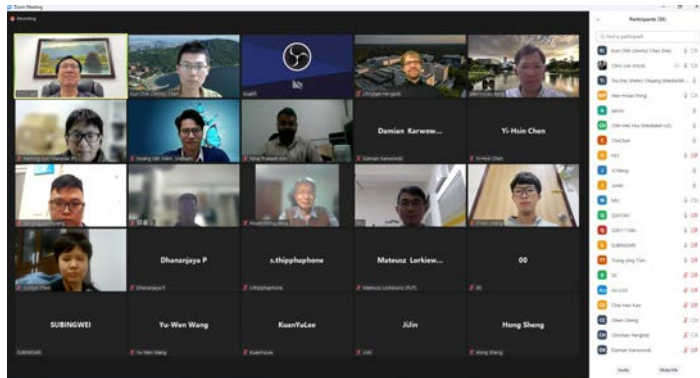
**Abstract:** In recent years, online video services have become an integral part of billions of users worldwide. As a consequence, recent studies found that systems and devices enabling this technology are nowadays contributing substantially to global greenhouse gas emissions. As a consequence, research targeting energy-efficient video streaming solutions is of high interest for the future of our planet. In this talk, we provide an overview on current research targeting the energy efficiency of end-user devices. We will talk about different factors influencing the power consumption and about potential solutions using sophisticated energy and power modeling, quality assessment, and crowdsourcing data.

**Short-bio:** Christian Herglotz received the Dipl.-Ing. in electrical engineering and information technology in 2011 and the Dipl.-Wirt. Ing. in business administration and economics in 2012, both from Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen University, Germany. Since 2012 he has been a Research Scientist with the Chair of Multimedia Communications and Signal Processing, Friedrich-Alexander University Erlangen-Nürnberg (FAU), Germany, where he received his Dr.-Ing. degree in 2017. In 2018 and 2019, he worked as a PostDoc-Fellow at



École de technologie supérieure in collaboration with Summit Tech Multimedia, Montréal, Canada on energy efficient VR technologies. Since 2019, he is with Friedrich-Alexander University Erlangen-Nürnberg as a senior scientist. His current research interests include energy efficient video communications and video coding. Since 2020, he is with the Visual Signal Processing and Communications Technical Committee of the IEEE Circuits and Systems Society.

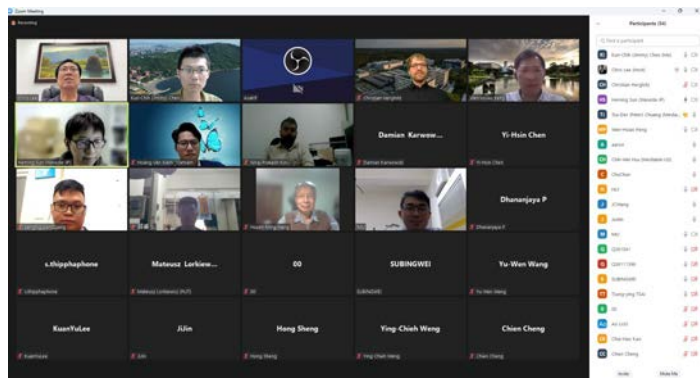
## Taiwan Local Chapter



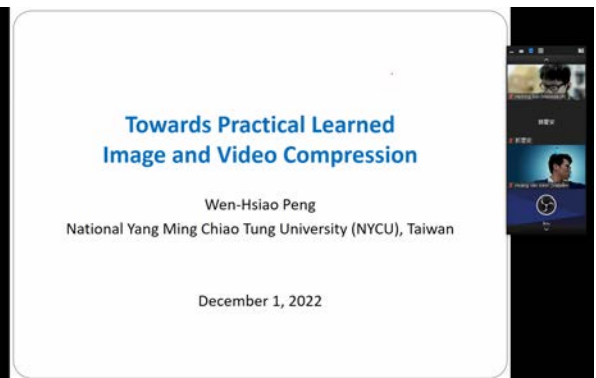
Group photo 1



Prof. Heming Sun



Group photo 2



Prof. Wen-Hsiao Peng



Presentation

## The US Local Chapter

The APSIPA U.S. Local Chapter hosted two distinguished seminars at Santa Clara University (California, USA) on December 6, 2022. The distinguished speakers were Professor C.-C. Jay Kuo from the University of Southern California (USA) and Professor Chia-Wen Lin from National Tsing Hua University (Taiwan). Professor Nam Ling of Santa Clara University organized and hosted the seminars. Professor Kuo's topic was "Green Learning: Methodology, Examples and Perspectives." In this talk he discussed green learning (GL) as an alternate learning paradigm addressing the concern of the high carbon footprint yielded by large deep learning networks. Professor Lin's topic was "Making the Invisible Visible: Toward High-Quality Physics-Guided THz Computational Imaging." In this talk, he introduced the characteristics of terahertz (THz) imaging and its applications, as well as the methods used in breaking the limitations of THz imaging. The seminars were attended by 38 people on Zoom and 22 people in-person, a total of approximately 60 people, one of the highest attendance records in 2022 for the Chapter. The speakers and colleagues were treated with a nice dinner at the Jade Cathay restaurant in San Jose (California) in the evening.





## Status Update on APSIPA Transactions on Signal and Information Processing

C.-C. Jay Kuo

APSIPA Transactions on Signal and Information Processing (ATSIP) has had a steady increase in paper submissions, publications, and citations in recent years, as shown in Figures 1 and 2. The number of annual submissions was over 80 in December 2020. Most importantly, the number of citations has been drastically improved. The latest Citescore is 8.2, placing ATSIP in the Q1 percentile, the category of first-class journals. Also, the days to reach the first and the final decision were around 23 and 42, respectively. They are impressive numbers. ATSIP has 6 special issues in 2021 and 2022:

- Information Processing for Understanding Human Attentional and Affective States (Junichiro Yoshimoto et al.)
- Deep Neural Networks: Representation, Interpretation, and Applications (Li-Wei Kang et al.)
- Multi-Disciplinary Dis/Misinformation Analysis and Countermeasures (Yuhong Liu, Mauro Barni et al.)
- Learning, Security, and AIoT for Emerging Communication/Networking Systems (Jia-Ching Wang et al.)
- Advanced Acoustic, Sound, and Audio Processing Techniques and Their Applications (Yu Tsao et al.)
- Emerging AI Technologies for Smart Infrastructure (Jiaying Liu et al.)

We hope that ATSIP will continue with this positive trend in 2023 with the broad support of the APSIPA community.

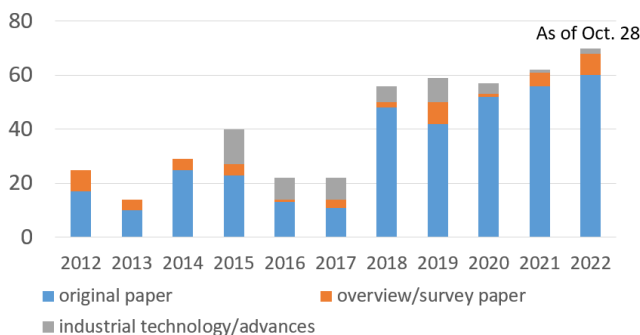


Figure 1: The number of submissions of ATSIP from 2012 to 2022.

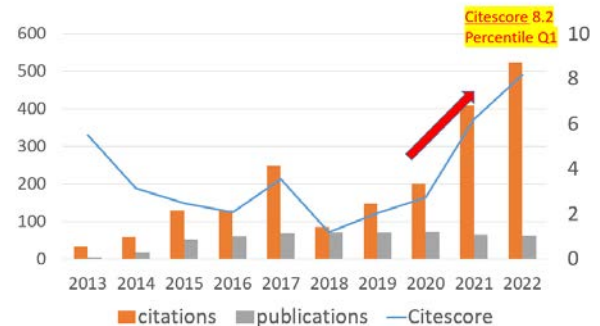


Figure 2: The number of citations and publications of ATSIP from 2013 to 2022.

	Time (#Days) to First Decision	Time (#Days) to Final Decision
2012	177	178
2013	84	397
2014	77	231
2015	80	247
2016	84	171
2017	82	238
2018	50	112
2019	54	65
2020	24	42
2021	25	42
2022	23	42

Figure 3: The statistics of days to reach the first and final decisions of ATSIP from 2012 to 2022.

## Recent Issues in Foundations and Trends in Computer Graphics and Vision

As a member of our Foundations and Trends alert list you enjoy free access for 5 days to recently published content. Over the past few months we have been migrating to new mailing software which will help us serve our members better. For example, you can now choose to receive information about our range of FnTs, journals and books separately. Our mailings will remain targeted on information that serves your research needs. Use the Manage Preferences link below to select your options.

Since our last mailing Foundations and Trends in Computer Graphics and Vision has published the following issues:

- Volume 13, Issue 2-3

A Comprehensive Review of Modern Object Segmentation Approaches

By Yuanbo Wang, Unaiza Ahsan, Hanyan Li and Matthew Hagen

<https://nowpublishers.com/article/Details/CGV-097>

- Volume 13, Issue 4

Video Summarization Overview

By Mayu Otani, Yale Song and Yang Wang

<https://nowpublishers.com/article/Details/CGV-099>

- Volume 14, Issue 1-2

Semantic Image Segmentation: Two Decades of Research

By Gabriela Csurka, Riccardo Volpi and Boris Chidlovskii

<https://nowpublishers.com/article/Details/CGV-095>

- Volume 14, Issue 3-4

Vision-Language Pre-Training: Basics, Recent Advances, and Future Trends

By Zhe Gan, Linjie Li, Chunyuan Li, Lijuan Wang, Zicheng Liu and Jianfeng Gao

<https://nowpublishers.com/article/Details/CGV-105>

Complimentary downloads of these articles will be available until 16 December so you should be able to access them directly using the links provided.

To purchase the book versions of these issues, go to the secure Order Form.

You will receive the alert member discount price of \$40 each (includes non-trackable shipping) by quoting the Promotion Code: 621301.

Thank you for your attention.

## **Publication Notification from Now Publishers**

Through the ongoing collaboration between APSIPA and Now Publishers, APSIPA members can now access relevant content from Now Publishers by signing up to the following alerts list: <https://zc.vg/fFuKI>. Consequently you will be alerted when a new paper is published in any of the following journals:

- APSIPA Transactions in Signal and Information Processing
- Foundations and Trends in Signal Processing
- Foundations and Trends in Computer Graphics and Vision
- Foundations and Trends in Machine Learning

These can then be downloaded free of charge for several days following the publication of the paper.



## 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 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: <https://www.nowpublishers.com/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>

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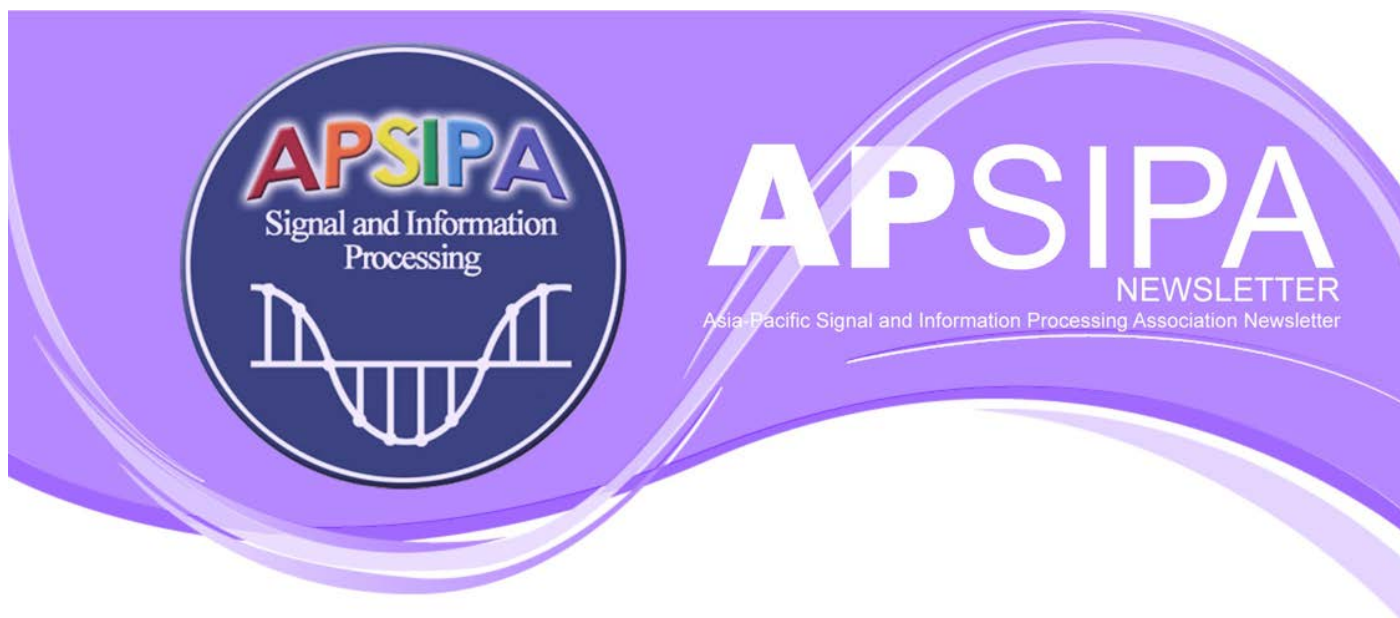
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