Issue 34
Mar. 2022

APSIPA NEWSLETTER

Asia-Pacific Signal and Information Processing Association Newsletter

Greetings!

It has already been more than two months since the start of 2022. May 2022 be filled with only good things for the APSIPA Society! From this year, I was in charge of EiC of the APSIPA newsletters.

Our editorial board members will not miss the good news and will try to deliver it to the Society members. There were several important activities at the end of 2021. Prof. Kuo was elected as the EiC of the ATSIP journal. As of this January, the publisher of ATSIP is changed from Cambridge University Press to NOW publisher. The website is also changed to https://www.nowpublishers.com/SIP. I hope you all contribute a lot of good papers. New BoG members and VP members were selected. More information is on the website. APSIPA ASC 2021 must be one of the biggest events of the APSIPA Society It was held at Dec. 14 – 17, Tokyo, Japan in hybrid mode successfully. I would like to express my gratitude to everyone including the general chair Yoshinobu Kajikawa.

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Don't forget that the 14th APSIPA ASC 2022 in 2022 will be held from 7-10 November 2022 in Chiang Mai, Thailand. The submission deadline for proposal of special sessions is 31 May 2022, and the submission deadline for the regular and special session papers are 30 June 2022. Additional information is available at http://www.apsipa2022.org/.

Sanghoon Lee

Lastly, in the Corona situation, many events are being done remotely on-line. Although the on-line meeting is still less realistic than the off-line meeting, it seems good to conduct various events more comfortably. Each event that takes place for our APSIPA members will be an opportunity to get to know each other by posting it in our newsletter. It would be great if you send your contributions and share them each other. Thank you very much, and I hope you enjoy reading this issue.

APSIPA President's Message for 2022

Professor Anthony Kuh
University of Hawai`i

Dear APSIPA members and community,

I hope all of you have had a good start to the new year. 2021 was a difficult year with the second year of the coronavirus pandemic. Despite restrictions imposed by the pandemic it was a successful year for APSIPA with many activities and new events. I would like thank all of you for your participation and help with these activities and events. Many of these activities are highlighted in this newsletter.

Let me first give thanks to the APSIPA Vice Presidents and Board of Governor members that finished their terms in 2021: Yoshinobu Kajikawa, Vice President – Member Relations and Development; Kenneth Lam, Vice President – Publications; Kai-Kuang Ma – at large member; Hiroshi Saruwatari – at large member; Chung-Hsien Wu – at large member; and Min Wu at large member. We appreciate the time and effort they gave for APSIPA.

We held elections last year and let me congratulate the newly elected officers and at large BoG members. The newly elected officers are: Seishi Takamura, Vice President – Industrial Relationships and Development (elected for 2nd term), Kosin Chamnongthai, Vice President – Conferences (elected for 2nd term), Toshihisa Tanaka, Vice President – Member Relationships and Development, and Woon-Seng Gan, Vice President – Publications. The new at large BoG members are: Yoshinobu Kajikawa, Kenneth Lam, Sanghoon Lee, and KokSheik Wong. I would also like to congratulate former APSIPA Presidents Haizhou Li and Wan-Chi Siu who are now APSIPA Advisory Board members.

This past December, the 13th APSIPA ASC was held in hybrid mode in Tokyo, Japan. Thank you to the entire organizing committee for putting together a fantastic conference. Special thanks to Yoshinobu Kajikawa, Toshihisa Tanaka, and Koichi Shinoda who served as general chairs for their hard work and leadership. Among the highlights of the conference were the great talks by the keynote speakers by Professors Karlheinz Brandenburg, Shun-ichi Amari, and Min Wu. In conjunction with APSIPA ASC there was a nice and well attended Winter School organized by Mingyi He. This coming November 7-10th the 14th APSIPA ASC will be held in Chiang Mai, Thailand with Nipon Theera-Umpon and Kosin Chamnongthai leading the organization of the conference. In 2023, the APSIPA ASC will be held in Taipei, Taiwan and in 2024, the APSIPA ASC will be held in Macao. Thank you to Kosin Chamnongthai for leading APSIPA conference efforts.

This past year the APSIPA Transactions for Signal and Information Processing transitioned from Cambridge University Press to NOW Publishers. We thank Tatsuya Kawahara for his leadership as EiC of the APSIPA Transactions for Signal and Information Processing. and congratulate Jay Kuo for taking over as the new EIC. We look forwards to the new directions and growth of the APSIPA Transactions under Jay's leadership. Congratulations to Nam Ik Cho for becoming the EiC of the APSIPA book series. Thank you to KokSheik Wong who was EIC of the APSIPA newsletter and congratulations to Sanghoon Lee who is taking over as EIC of the newsletter. Finally, thanks to Kenneth Lam for leading APSIPA publication efforts.

This has been active year for membership activities. Three local chapters were established in Japan, Taiwan, and the United States. All three chapters had many activities and we thank the chairs: Toshihisa Tanaka – Japan, Chris Lee – Taiwan, and Jay Kuo – United States for their leadership. At the 2021 APSIPA ASC we held the first APSIPA women's panel organized by Bonnie Law and Min Wu. This women's panel was very successful and we thank all the panelists and participants. Thank you to Yoshinobu Kajikawa for leading APSIPA membership efforts.

I have just touched on some of the many APSIPA activities. Other activities include education activities led by Mingyi He (including distinguished lectures and seasonal schools), industry activities led by Seishi Takamura, and technical activities led by Yih-Fang Huang. Thanks to Mingyi, Seishi, and Yih-Fang for their leadership. I look forwards to many great and informative APSIPA activities this year including more in person activities. Please feel free to contact me about any questions, suggestions, or comments that you may have about APSIPA.

Best wishes to all for a healthy, safe, and productive 2022.
Anthony Kuh, President APSIPA (2021-2022)

Election Results

APSIPA relies on the services and contribution from the APSIPA Board of Governors as well as support from all APSIPA members. Elections for the following Vice Presidents and Members-at-Large of the APSIPA BoG have been conducted near the end of 2021. We are pleased to share with you the following election results.

Vice President - Conference
Prof. Kosin Chamnongthai
King Mongkut's University of Technology Thonburi, Thailand.

Vice President – Industrial Relations and Development
Dr. Seishi Takamura
NTT Corporation, Japan.

Vice President – Member Relations and Development
Prof. Toshihisa Tanaka
Tokyo University of Agriculture and Technology, Japan.

Vice President – Publications
Prof. Woon-Seng Gan
Nanyang Technological University, Singapore.

Members-at-large

Prof. Yoshinobu Kajikawa
Kansai University,
Japan.

Prof. Kenneth Lam
The Hong Kong Polytechnic University, HK.

Prof. Sanghoon Lee
Yonsei University,
Korea.

Prof. KokSheik Wong
Monash University Malaysia, Malaysia.

APSIPA Sadaoki Furui Prize Paper Award

Professor Sadaoki Furui was the APSIPA founding president (2009 to 2012). In 2015, Professor Furui kindly donated a sum of US$25,000 to APSIPA. The donation is used to promote and recognize high quality papers published in the APSIPA Transactions on Signal and Information Processing, through establishing a "best paper award", named APSIPA Sadaoki Furui Prize Paper Award. We are pleased to announce that the 6th APSIPA Sadaoki Furui Prize Paper Award was given to:

Hiroshi Sawada, Nobutaka Ono, Hirokazu Kameoka, Daichi Kitamura, Hiroshi Saruwatari
A review of blind source separation methods: two converging routes to ILRMA originating from ICA and NMF
APSIPA Transactions on Signal and Information Processing: Vol. 8: No. 1, e12.
DOI: http://dx.doi.org/10.1017/ATSIP.2019.5

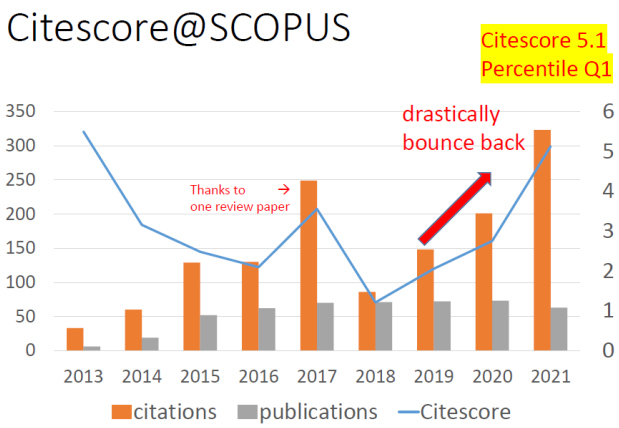
The award (including the certificate and the cash prize of US $1000) was presented at the opening ceremony of APSIPA ASC 2021.

APSIPA Transactions on Signal and Information Processing Enters Its 11th Year

C.-C. Jay Kuo

APSIPA Transactions on Signal and Information Processing (ATSIP) is an open-access e-only journal in partnership with NOW Publishers. The Journal 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/ image recognition to multimodal human behavior 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).

The first issue of ATSIP was published by the Cambridge University Press (CUP) in 2012. Professor Antonio Ortega was its founding editor-in-Chief (EiC) and served from 2012-2017. Professor Tatsuya Kawahara was its 2nd EiC and served from 2018-2021. Under the leadership of Professor Ortega and Professor Kawahara, ATSIP has a steady number of paper submissions, publications, and citations in the past years. Most importantly, the number of citations has been drastically improved. The latest Citescore is 5.1, placing ATSIP in the Q1 percentile, the category of first-class journals as shown in Figure 1.



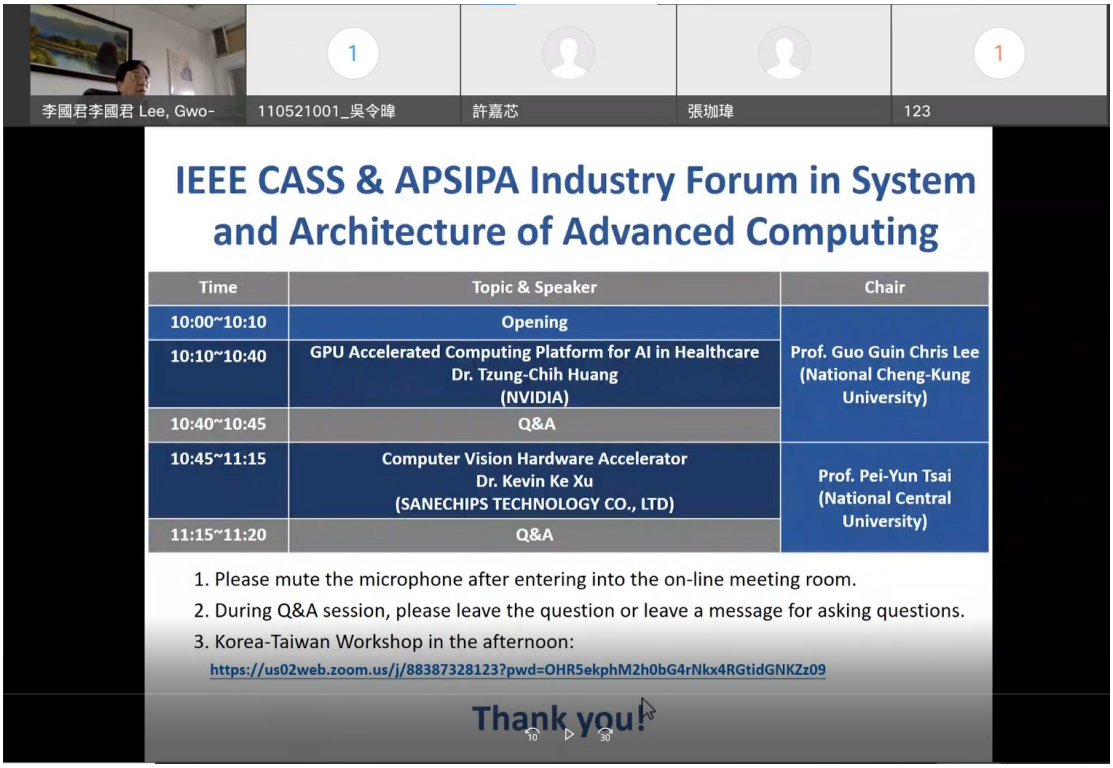
The number of citations and publications of ATSIP from 2013 to 2021.

As the journal enters its 11th year, there are three major changes. First, the NOW Publisher will succeed CUP to become the new publisher for the journal. Second, Professor C.-C. Jay Kuo of the University of Southern California will succeed Professor Kawahara to become its third EiC. Third, the journal will have a new submission category called Trans. Letters, whose length is no more than 7 pages. The article processing charge (APC) for regular papers and transaction letters are 1000 and 500, respectively, in 2022. ATSIP papers are already indexed by Scopus, EI and ESCI. They are also searchable on the Web of Science. Dr. Kuo's top priority is to get ATSIP indexed by SCI. To achieve this goal, the journal needs a steady growth in the published paper number and keep its good citation record. Professor Kuo has assembled a strong editorial board, which includes 27 senior editors, 66 editors, and 12 industrial editors. Dr. Kuo has also worked with several guest editorial teams in developing a couple of themed series. The first two are "Multi-Disciplinary Dis/Misinformation Analysis and Countermeasures" and "Emerging AI Technologies for Smart Infrastructure". The new website of ATSIP is https://www.nowpublishers.com/SIP. Your continual support to ATSIP is highly appreciated.

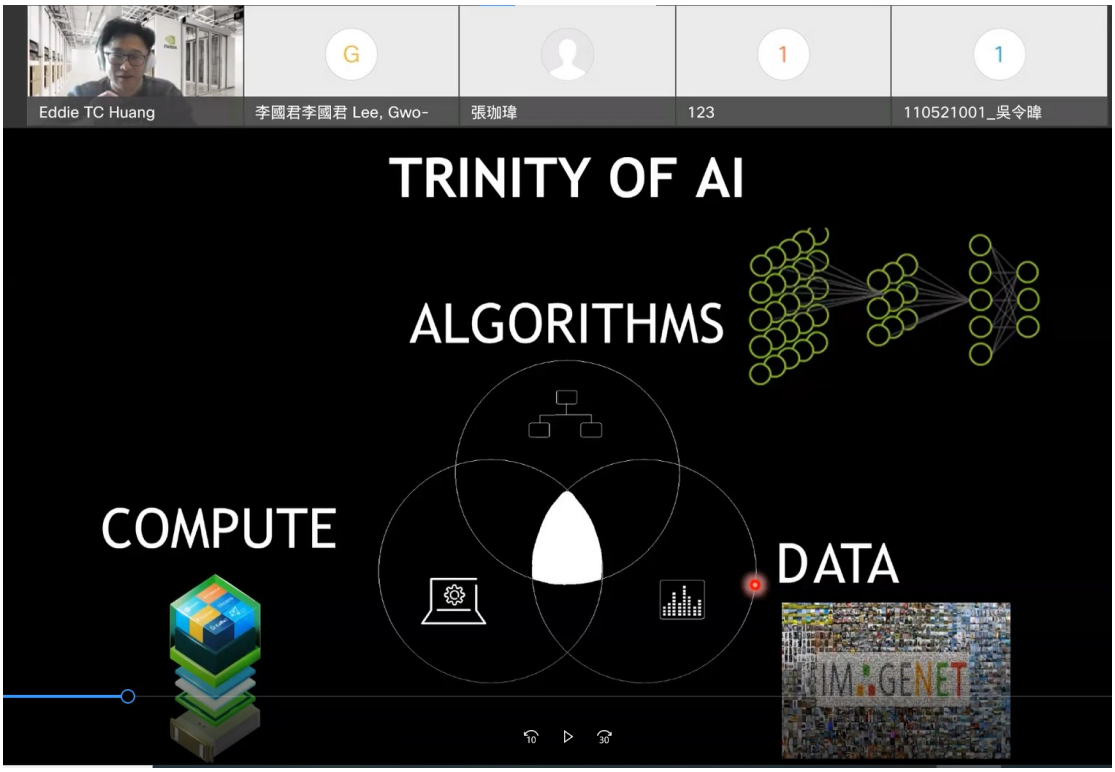
Introduction to APSIPA Taiwan Local Chapter

APSIPA Taiwan Local Chapter

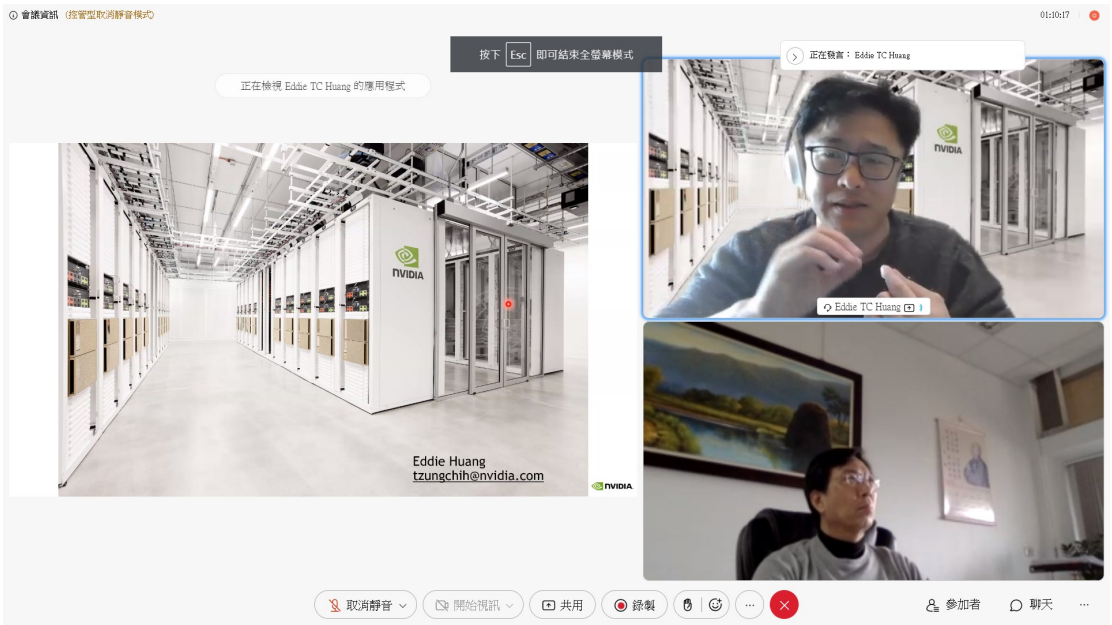
APSIPA Taiwan Local Chapter co-organized an Industry Forum with IEEE Circuits & Systems Society, Taipei Chapter, entitled "**System & Architecture of Advanced Computing**" on **February 18th, 2022** from 10:00AM ~ 11:30PM, Taiwan time (GMT+8). Two eminent speakers were invited from Taiwan. The first speaker was Dr. Tzung-Chih Huang Solution Architect Director, Healthcare, APAC, NVIDIA and spoke on "GPU accelerated computing platform for AI in healthcare". The second speaker was Dr. Kevin Ke Xu , AI Chief Scientist & Director of Engineering, SANECHIPS TECHNOLOGY CO., LTD, China who spoke on Computer Vision Hardware Accelerators. There were a total of 103 persons on-line and the talks were both well accepted with high interest. Pictures of the forum are shown below.



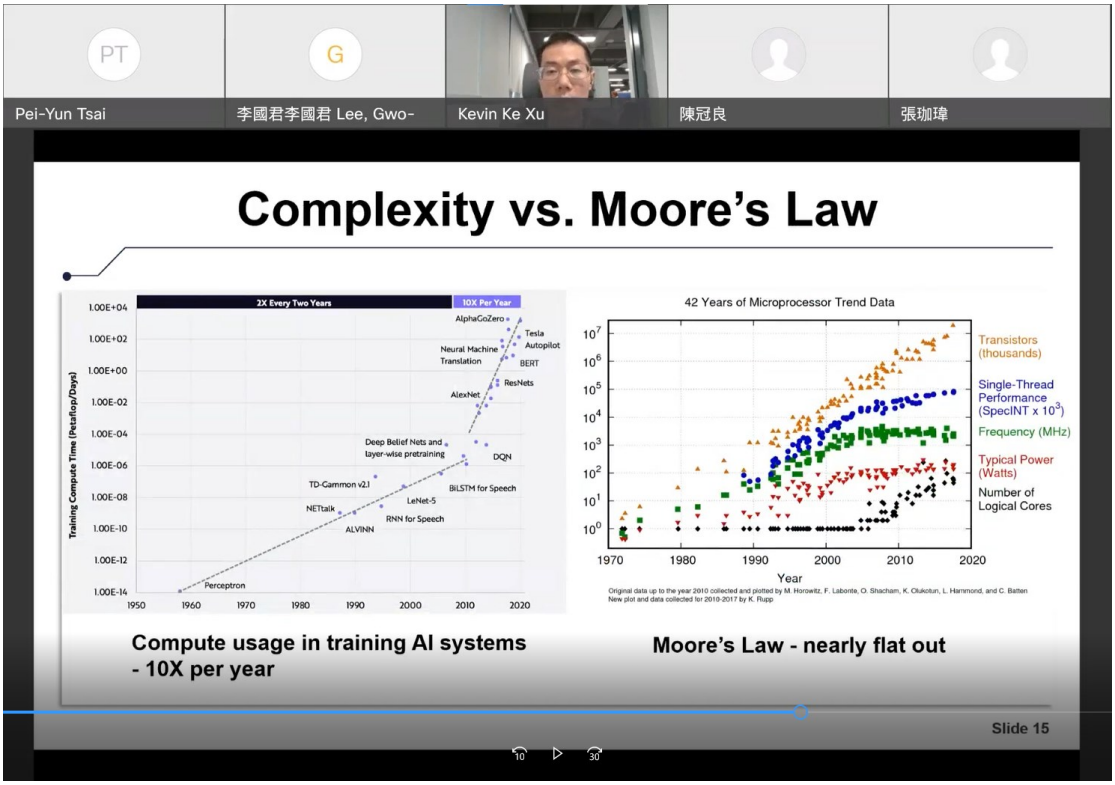
Opening photo



Clip of Dr. Tzung-Chih Huang's presentation.



Q&A of the first talk

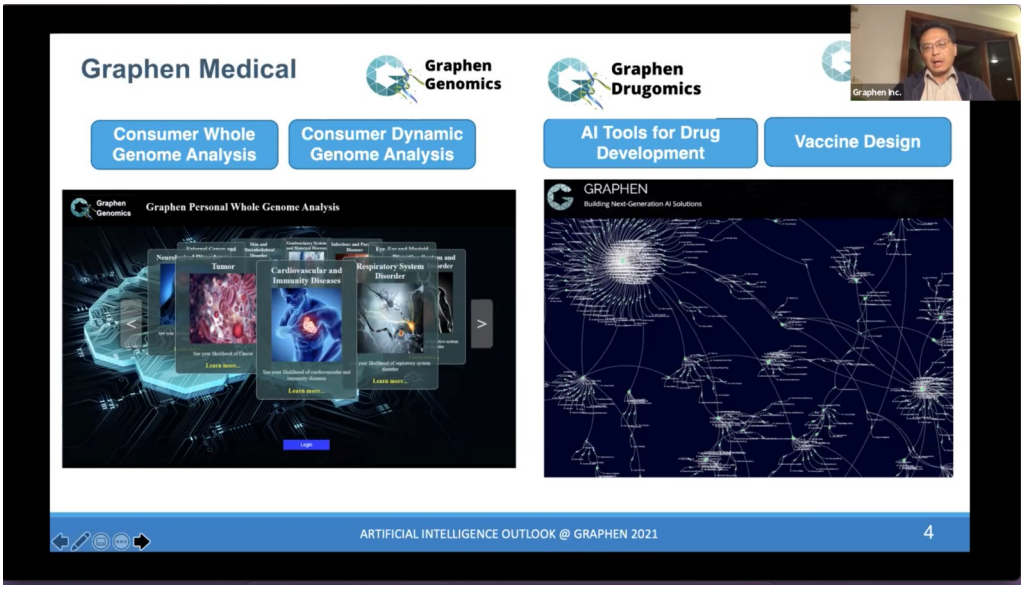


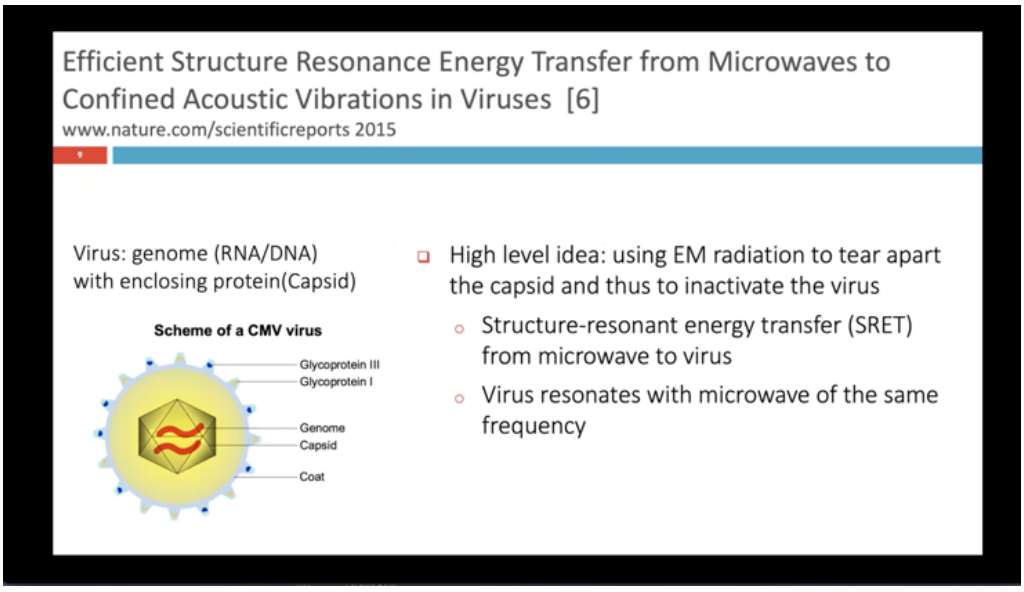
Clip of Dr. Ke Xu's presentation

Introduction to APSIPA Taiwan Local Chapter

APSIPA Taiwan Local Chapter

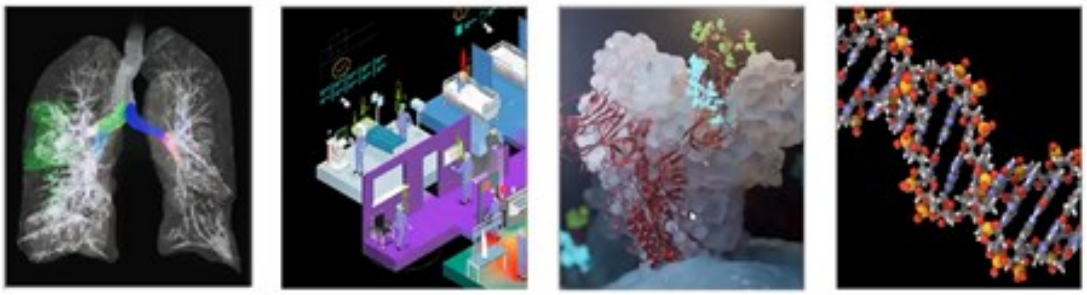
APSIPA Taiwan Local Chapter co-organized an Industrial Distinguished Leader Forum with Industrial Relations and Development, on **September 24th, 2021** from 9:30AM ~ 12:30AM, Taiwan Time GMT+8) on the theme, entitled "**Digital Technologies Related to COVID-19**". Four distinguished industry leaders were invited. The first speaker was Dr. Ching-Yung Lin, CEO, Graphen, USA, Adjunct Professor, Depts. of Electrical Engineering and Computer Science, Columbia University, USA, who spoke on "Designing COVID-19 Vaccines that Overcome Future Variants". The second speaker was Dr. Pengfei Xia, from Amazon, USA who spoke on "Millimeter Wave Wireless for 5G Cellular, and Potential Applications for COVID-19 Inactivation". The third speaker was Dr. Cheng-Kuang Lee, Senior Solution Architect; Leader of NVAITC-Taiwan, NVIDIA AI Technology Center, (NVAITC) | NVIDIA who spoke on "Accelerated Healthcare and Life Science – NVIDIA CLARA". The fourth speaker was Dr. Dejan Milojicic, Distinguished Technologist, Hewlett Packard Labs who spoke on "Factors and Technologies Impacting Future of Workforce". The maximum attendees were around 35 and was well accepted by our members from Taiwan, Japan, and US. Pictures of the four talks are displayed below.

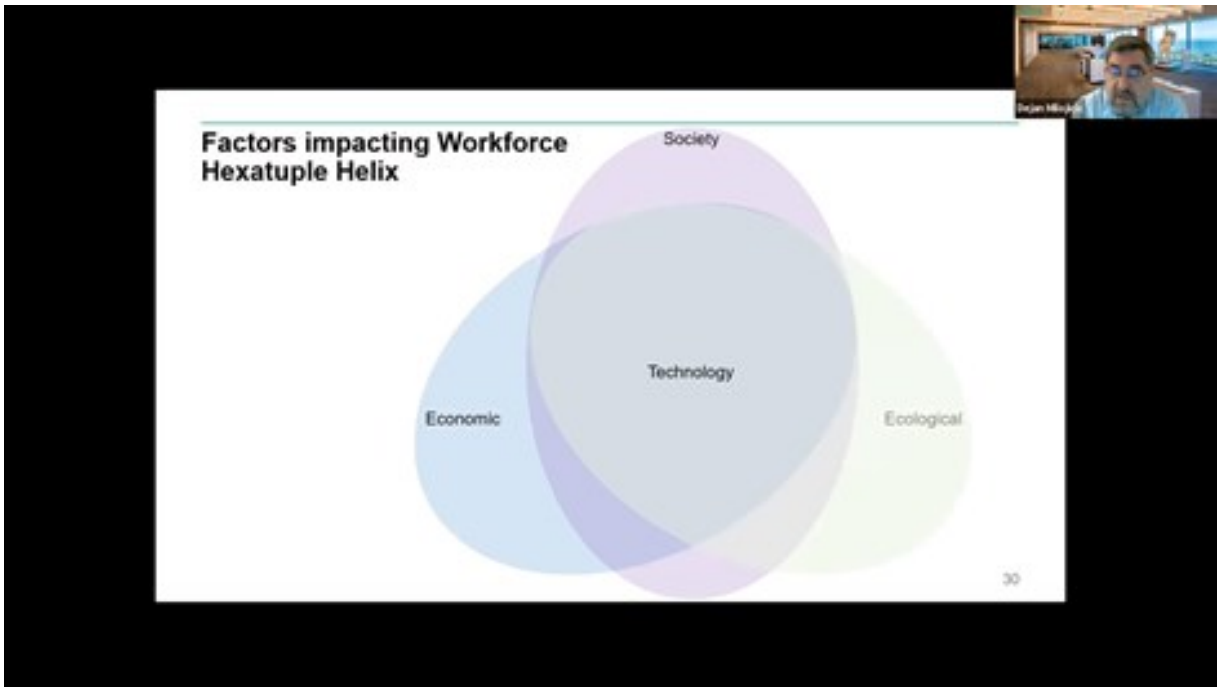




NVIDIA CLARA APPLICATION FRAMEWORKS

Advancing Medicine and Research





Introduction to APSIPA Japan Local Chapter

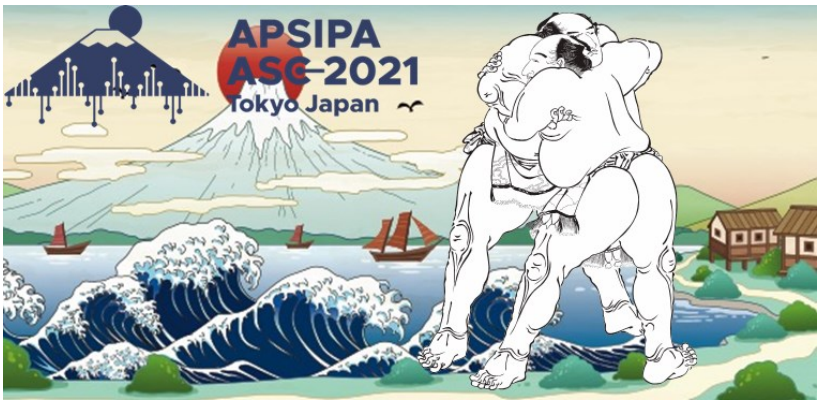
APSIPA Japan Local Chapter

APSIPA Japan Chapter Seminar by Masahiro Yukawa (Keio University, JAPAN)

Date: 9:20-10:10 AM JST, March 2, 2022
Place: Naha, Okinawa or Zoom
Onsite participation:
Registration for onsite participation was mandatory.

Online participation:
https://tuat-jp.zoom.us/meeting/register/tZAlcu-vrzwrGtMIceJzZbR7CAZkbTNEo_cu

Lecture: Masahiro Yukawa (Keio University, JAPAN)
Title: Be robust against outlier, and be stable under high-power Gaussian noise simultaneously



APSIPA ASC 2021

December 14 – 17, 2021, Tokyo, Japan

Signal & Information Processing

– Science for Signals, Data, and Intelligence –

First of all, on behalf of the organizing committee of APSIPA ASC 2021, we would like to thank all of you for participating the 13th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference held in Tokyo, Japan on December 14-17, 2021. APSIPA ASC 2021 was the first hybrid format (in-person and online) conference in the history of the APSIPA ASC due to the pandemic of COVID-19. The conference venue was located in Ryogoku town in Tokyo which is famous for Sumo wrestling. We also prepared a virtual conference place using the Gather.Town for all participants to enjoy technical discussions and conversations with friends. As some of you may know, the first APSPA ASC was held in Hokkaido, Japan in 2009. APSIPA ASC 2021 is the second time to hold the ASC in Japan.

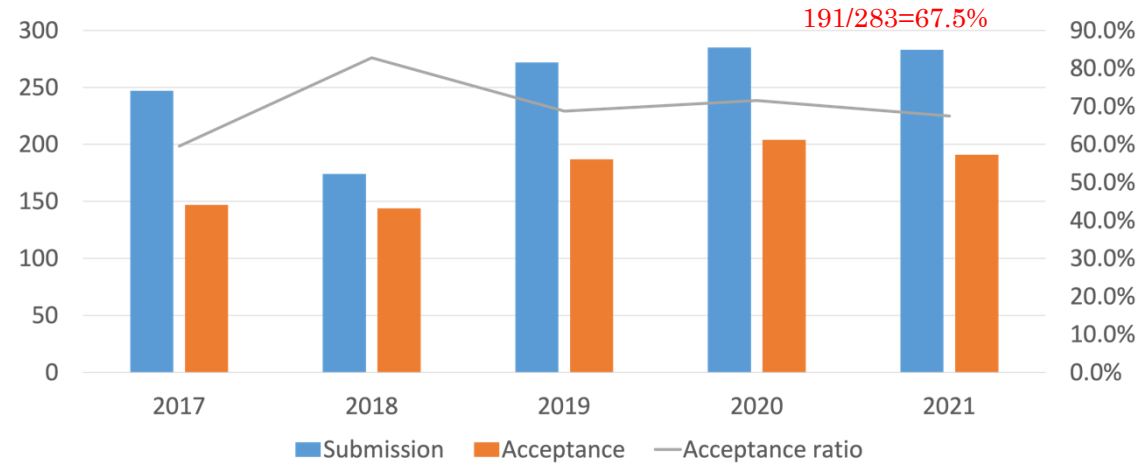
We were very worried at first about how many people would submit papers and how many people would participate, but we received more than 440 submissions for both regular and special sessions. We believe this is the largest number of submissions in the 13-year history of the APSIPA ASC. The number of registrations is also more than 520. 343 papers were presented in 47 sessions during the three days. All accepted papers have finally been accepted for indexed by EI compendex and archived by IEEE Xplore.

We invited three keynote speakers: Prof. Karlheinz Brandenburg, Prof. Shun-ichi Amari, and Prof. Min Wu. On behalf of the organizing committee, we would like to express sincere thanks to the three distinguished scholars. We would also like to thank Industrial Forum speakers, Women's event panelists, Overview session presenters, Tutorial presenters, Winter School organizers and DLs, and industrial sponsors. Without their cooperation, we would not be able to offer such an attractive program.

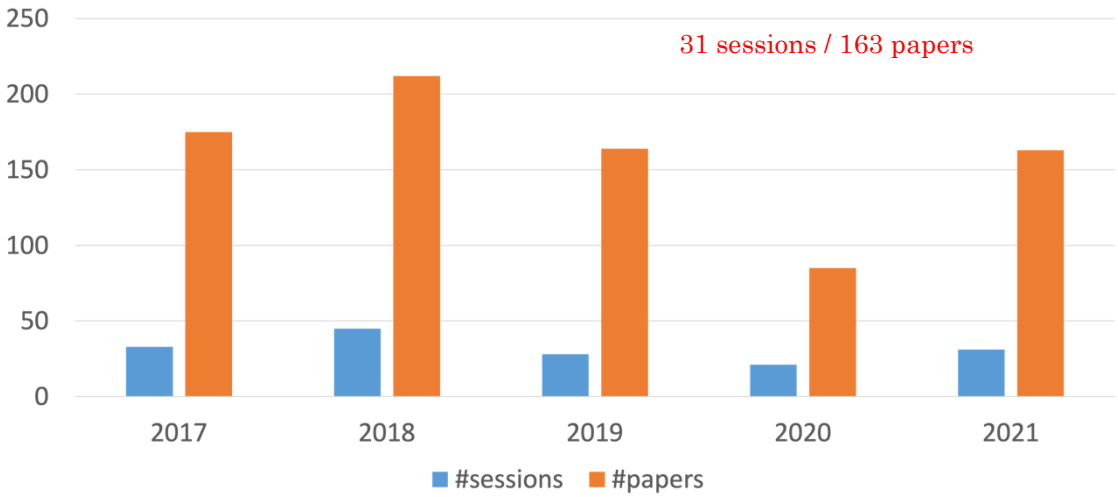
Finally, we would like to thank all the organizing committee members and volunteers who have worked so hard to make this conference a success. Although we were not able to see all of you in person at APSIPA ASC 2021, we hope that you enjoyed the entire program of APSIPA ASC 2021. Look forward to seeing you in person at APSIPA ASC 2022 in Chiang Mai, Thailand!

APSIPA ASC 2021 General Co-chairs
Yoshinobu Kajikawa (Kansai University, Japan)
Toshihisa Tanaka (Tokyo University of Agriculture and Technology, Japan)
Koichi Shinoda (Tokyo Institute of Technology, Japan)
Anthony Kuh (University of Hawaii, USA)

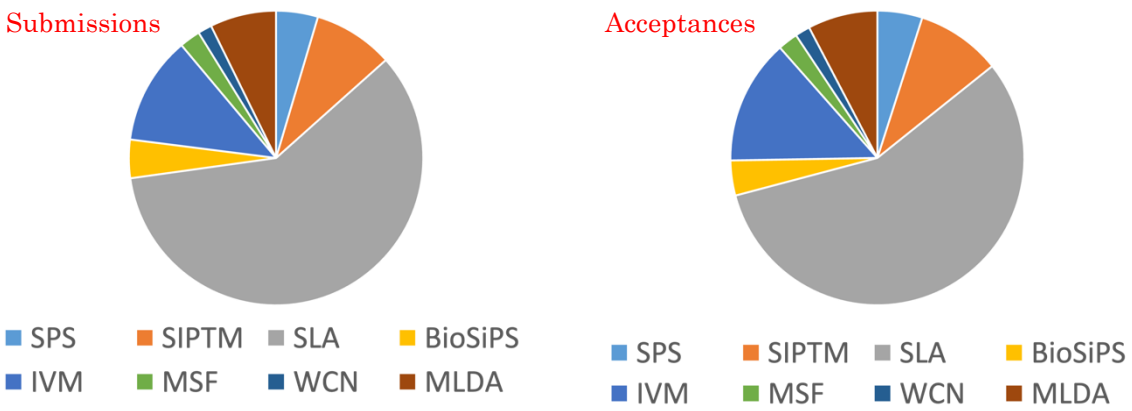
Key Statistics



Paper submissions, acceptances, and acceptance ratios for regular session.



Number of sessions and papers for special session.



Submissions and acceptances for TC areas.

Conference Photos

Opening Ceremony

Sadaoki Furui Prize Paper Award Winners

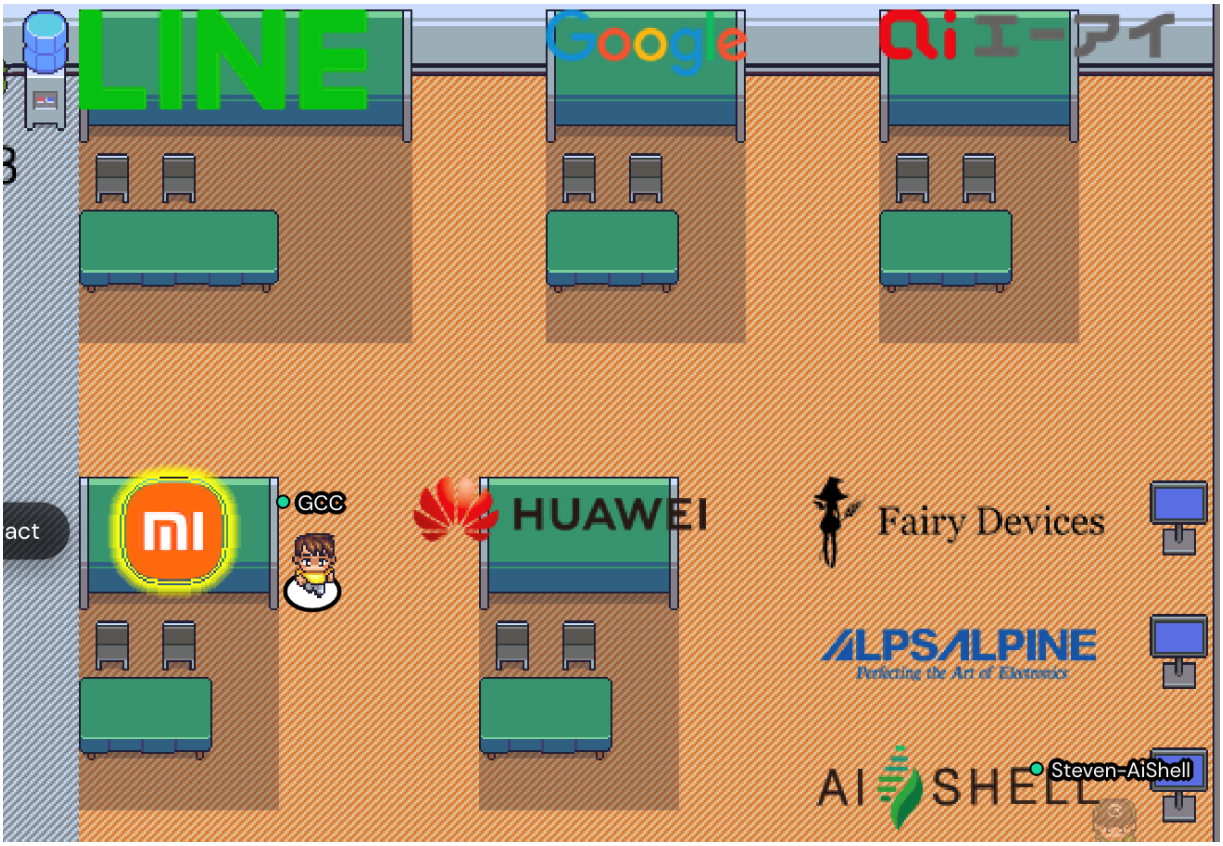
Keynote Speech 1 (Prof. Brandenburg)

Keynote Speech 2 (Prof. Amari)

Keynote Speech 3 (Prof. Wu)

Hybrid Session

Closing Ceremony (Group Photo)



Conference Sponsors on Virtual Platform

Introduction of APSIPA Industrial Distinguished Leaders Program and 2021 Recipients

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 2021, six people were selected as the recipients of APSIPA IDL.

Class of 2021 Fall

1. "Machine Learning as a Service: Challenges and Opportunities" by Mr. Chia-Yung Su, CTO/Co-Founder, Appier
2. "Inventing on behalf of the customers" by Prof. Gérard Medioni, VP/Distinguished Scientist, Amazon / Prof. Emeritus USC
3. "Recent Advances in End-to-End Automatic Speech Recognition" by Dr. Jinyu Li, Partner Applied Scientist, Microsoft

Class of 2021 Spring

1. "Millimeter Wave Wireless for 5G Cellular, and Potential Applications for COVID-19 Inactivation" by Dr. Pengfei Xia, Principal Engineer, Amazon
2. "Designing COVID-19 Vaccines that Overcome Future Variants" by Dr. Ching-Yung Lin, CEO, Graphen / Adj. Prof. Columbia University
3. "Nanofiber-Electroconductive-polymer textile "hitoe" for cardiac pacemaker electrodes and ECG monitoring" by Dr. Shingo Tsukada, NTT Fellow, NTT

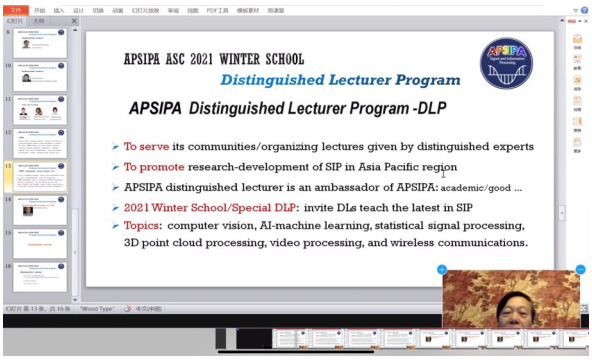
APSIPA Distinguished Lectures and Winter School 2021

2021 APSIPA Distinguished Lectures and Winter School (DL/WS) was held on December 13, 2021, in an online and offline hybrid form to against the post COVID-19. APSIPA President, Professor Anthony Kuh from Hawaii University, addressed an opening speech and Vice president (IRE), Professor Mingyi HE from Northwestern Polytechnical University, introduced the background and objective of the event. Our Distinguished Lecturers, Prof. Wan-chi Siu from Hong Kong, Prof Ce Zhu from Chengdu, Prof Huihui Bai from Beijing, Prof Zhiyong Wang from Sydney, Prof Jae-Young Sim from Ulsan, Prof Shogo Muramatsu from Niigata, and Prof Yan Chen from Hefei, gave invited talks respectively. The distinguished lectures covered various topics on computer vision, machine learning, statistical signal processing, 3D point cloud processing, video processing, and wireless communications.

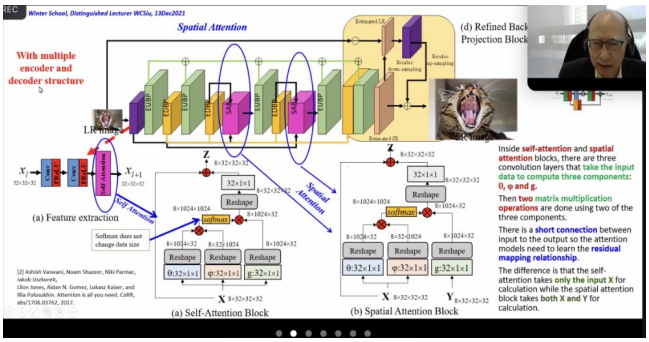
The DL/WS was co-supported by Northwestern Polytechnical University and Tokyo Institute of Technology. Professor Nakamasa Inoue from Tokyo Institute of Technology (Japan) and Professor Shaui Wan from Northwestern Polytechnical University (China) conducted the Website and WeChat publicity and co-chaired the lectures. More than 300 students and young researchers from countries/regions registered, attended and enjoyed these wonderful lectures.

2021 APSIPA DL/WL Program

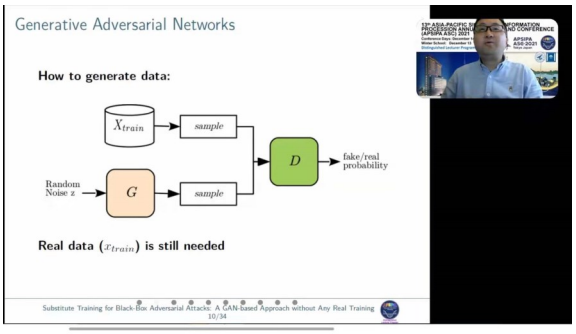
Prof Kuh, APSIPA President, is addressing opening speech



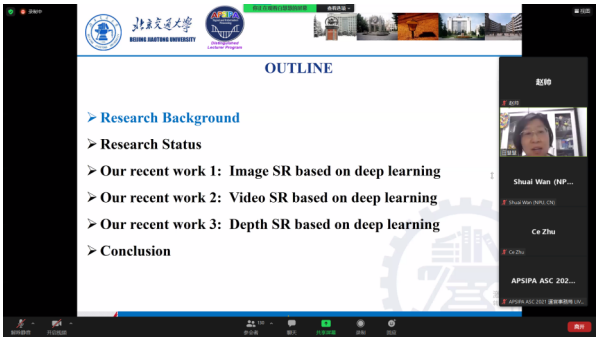
Prof He, APSIPA VP, is introducing the DLP



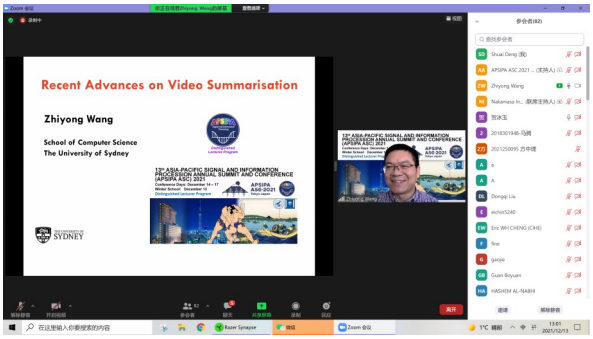
Prof Wan-chi Siu is giving a distinguished lecture



Prof Ce Zhu is giving a distinguished lecture

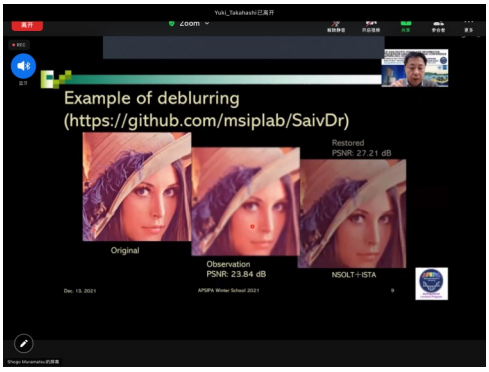


Prof Huihui Bai is giving a distinguished lecture

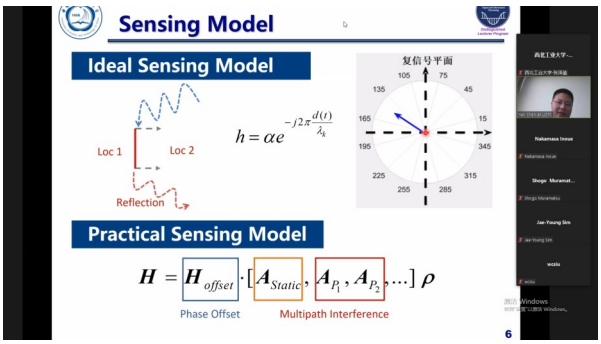


Prof Zhiyong Wang is giving a distinguished lecture

Prof Jae-young Sim is giving a distinguished lecture



Prof Shogo Muramatsu is giving a distinguished lecture



Prof Yan Chen is giving a distinguished lecture

Distinguished Lectures by Distinguished Lecturers For 2021-2022

Speaker: **Prof. Wan-Chi Siu**, Hong Kong Polytechnic University
Title: Deep Learning Baseline Model Design with sample application to Super- Resolution Imaging
Time: 19 Mar, 2021
Venue: Virtual Workshop; https://cis.cihe.edu.hk/workshop.html#02
Host: Prof Paulina Y. Chan, Hong Kong

Speaker: **Prof. Changshui Zhang**, Tsinghua University
Title: Few-Shot Learning: Three Examples
Time: 19 Mar, 2021
Venue: Virtual Workshop; https://cis.cihe.edu.hk/workshop.html#02
Host: Prof. Wan-Chi Siu, Hong Kong

Speaker: **Prof. Jun Du**, Univ of Sci and Tech of China
Title: A study on Scenario-Dependent Speaker Diarization
Speaker: Prof. Ye Wang, Nat Univ of Singapore
Title: Neuroscience-inspired Sound and Music Computing (SMC) for Bilingualism and Human Potential
Time: November 17, 2021
Venue: virtual talk
Host: Prof. Blair Kaneshiro, Stanford University, USA

Speaker: **Prof. Wan-Chi Siu**, Hong Kong Polytechnic Univ
Title: Developing Attention Mechanism from Conventional Machine Learning to Deep Learning
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Speaker: **Professor Ce Zhu**, Univ of Electronic Sci and Tech of China
Title: Substitute Training for Black-Box Adversarial Attacks: A GAN-based Approach without any Real Training Data
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Speaker: **Prof. Huihui Bai**, Beijing Jiaotong Univ
Title: Exploration of depth super-resolution based on deep learning
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Speaker: **Prof. Zhiyong Wang**, University of Sydney
Title: Recent Advances on Video Summarization
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Distinguished Lectures by Distinguished Lecturers For 2021-2022

Speaker: **Prof. Jae-Young Sim**, Ulsan Nat Inst Sci and Tech
Title: Glass Reflection Removal for Images and 3D Point Clouds
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Speaker: **Prof. Shogo Muramatsu**, Niigata University
Title: Development of Cyber-Physical System (CPS) for Active Control of River Channels
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China; Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Speaker: **Prof. Yan Chen**, Univ of Sci and Tech of China
Title: Smart Radio Sensing
Time: 13 Dec, 2021
Venue: Virtual Workshop; https://www.apsipa2021.org/winter_school.html
Host: Prof Mingyi He, Prof Shaui Wan /Northwestern Polytechnical Univ, China;Prof Nakamasa Inoue/ Tokyo Institute of Technology, Japan

Distinguished Lecturers for 2022-2023

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 world. For more information about the DL Program, please contact Professor Mingyi He who is the Vice President of Institutional Relations and Education Program. Through the nomination/ recommendation from AAB/BoG members, and the Technical Committees, the evaluations/ discussions by selection committee, and final approval by BoG, nine newly selected Distinguished Lecturers for 2022 to 2023 are as follows.

- **Ronald Chang**, Academia Sinica
- **Fei Chen**, Southern Univ of Sci and Tech
- **Yuchao Dai**, Northwestern Polytechnical Univ
- **Kazunori Hayashi**, Kyoto Univ
- **Yipeng Liu**, Univ of Electronic Sci and Tech of China
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Latest Articles from APSIPA Transactions on Signal and Information Processing (ATSIP)

Original paper

- **Cross-layer knowledge distillation with KL divergence and offline ensemble for compressing deep neural network**
  - Hsing-Hung Chou, Ching-Te Chiu, Yi-Ping Liao
  - DOI: https://doi.org/10.1017/ATSIP.2021.16
  - Published online: 17 November 2021, e18

- **TGHop: an explainable, efficient, and lightweight method for texture generation**
  - Xuejing Lei, Ganning Zhao, Kaitai Zhang, C.-C. Jay Kuo
  - DOI: https://doi.org/10.1017/ATSIP.2021.15
  - Published online: 27 October 2021, e17

- **Social rhythms measured via social media use for predicting psychiatric symptoms**
  - Kenji Yokotani, Masanori Takano
  - DOI: https://doi.org/10.1017/ATSIP.2021.17
  - Published online: 28 October 2021, e16

- **Two-stage pyramidal convolutional neural networks for image colorization**
  - Yu-Jen Wei, Tsu-Tsai Wei, Tien-Ying Kuo, Po-Chyi Su
  - DOI: https://doi.org/10.1017/ATSIP.2021.13
  - Published online: 08 October 2021, e15

- **Robust deep convolutional neural network against image distortions**
  - Liang-Yao Wang, Sau-Gee Chen, Feng-Tsun Chien
  - DOI: https://doi.org/10.1017/ATSIP.2021.14
  - Published online: 11 October 2021, e14

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  - Jung Hyun Bae, Ahmed Abotabl, Hsien-Ping Lin, Kee-Bong Song, Jungwon Lee
  - DOI: https://doi.org/10.1017/ATSIP.2019.10
  - Published online: 24 June 2019, e17

- **An overview of ongoing point cloud compression standardization activities: video-based (V-PCC) and geometry-based (G-PCC)**
  - D. Graziosi, O. Nakagami, S. Kuma, A. Zaghetto, T. Suzuki, A. Tabatabai
  - DOI: https://doi.org/10.1017/ATSIP.2020.12
  - Published online: 03 April 2020, e13

- **Graph representation learning: a survey**
  - Fenxiao Chen, Yun-Cheng Wang, Bin Wang, C.-C. Jay Kuo
  - DOI: https://doi.org/10.1017/ATSIP.2020.13
  - Published online: 28 May 2020, e15

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- **Evaluating word embedding models: methods and experimental results**
  - Bin Wang, Angela Wang, Fenxiao Chen, Yuncheng Wang, C.-C. Jay Kuo
  - DOI: https://doi.org/10.1017/ATSIP.2019.12
  - Published online: 08 July 2019, e19

- **An overview of channel coding for 5G NR cellular communications**
  - Jung Hyun Bae, Ahmed Abotabl, Hsien-Ping Lin, Kee-Bong Song, Jungwon Lee
  - DOI: https://doi.org/10.1017/ATSIP.2019.10
  - Published online: 24 June 2019, e17

- **An overview of ongoing point cloud compression standardization activities: video-based (V-PCC) and geometry-based (G-PCC)**
  - D. Graziosi, O. Nakagami, S. Kuma, A. Zaghetto, T. Suzuki, A. Tabatabai
  - DOI: https://doi.org/10.1017/ATSIP.2020.12
  - Published online: 03 April 2020 , e13

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 publishers. By publishing a book through the APSIPA Open Access Book Series, authors can benefit from increased visibility, faster production, and free production fees. 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 to promote research and education on signal and information processing, and publishing open access books is an effective way to achieve our goal. The advantages of Open Access Book are the increased visibility, low production fee, and 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 Editorial Board. 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 ASC 2022

NOVEMBER 7 - 10, 2022, CHIANG MAI, THAILAND

WWW.APSIPA2022.ORG

ASIA-PACIFIC SIGNAL AND INFORMATION PROCESSING ASSOCIATION ANNUAL SUMMIT AND CONFERENCE 2022

Important Dates

May 31, 2022	May 31, 2022	June 30, 2022	June 31, 2022	July 1 to August 31, 2022	August 15, 2022	September 1, 2022	September 1, 2022	November 7-10, 2022
Submission of Proposals for Special Sessions	Submission of Proposals for Forum, Panel & Tutorial Sessions	Submission of Regular Papers	Submission of Special Session Papers	Submission of Research Abstract	Notification of Papers Acceptance	Submission of Camera-Ready Papers	Author (Early-Bird) Registration Deadline	Tutorials, Summit and Conference

APSIPA ASC 2022 (www.apsipa2022.org) is the 14th annual conference organized by Asia-Pacific Signal and Information Processing Association (APSIPA), which will be held on November 7-10, 2022 in Chiang Mai, Thailand. 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 Tokyo, Japan (2021), Auckland, New Zealand (2020), Lanzhou, China (2019), Hawaii, USA (2018), Kuala Lumpur, Malaysia (2017), Jeju, Korea (2016), Hong Kong, SAR China (2015), Siem Reap, Cambodia (2014), Kaohsiung, Taiwan (2013), Los Angeles, USA (2012), Xi' an, China (2011), 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 are expected to be included in IEEE Xplore and indexed by EI, like all previous years. The technical program includes, but not limited to the following areas

- 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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- **Plenary Co-Chairs**
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The International Conference on Acoustics, Speech, & Signal Processing (ICASSP), is the IEEE Signal Processing Society's flagship conference on signal processing and its applications. The 47th edition of ICASSP will be held in Singapore. The programme will include keynotes by pre-eminent international speakers, cutting-edge tutorial topics, and forward-looking special sessions. ICASSP also provides a great networking opportunity with a wide range of like-minded professionals from academia.

CONFERENCE TOPICS

- Applied Signal Processing Systems
- Audio & Acoustic Signal Processing
- Bio Imaging & Signal Processing
- Compressive Sensing, Sampling & Dictionary Learning
- Computational Imaging
- Computer Vision Financial Signal Processing
- Deep Learning/Machine Learning for Signal Processing
- Image, Video & Multidimensional Signal Processing
- Industrial Signal Processing
- Information Forensics & Security
- Internet of Things
- Multimedia Signal Processing
- Quantum Signal Processing
- Remote Sensing and Signal Processing
- Sensor Array & Multichannel Signal Processing
- Signal Processing for Big Data
- Signal Processing for Communication & Networking
- Signal Processing for Cyber Security
- Signal Processing for Education
- Signal Processing Over Graphs
- Signal Processing Theory & Methods
- Speech & Language Processing

Call for Tutorials: Tutorials at ICASSP form an important part of the program, giving attendees the opportunity to learn about current research areas that are of growing interest to the signal processing community. Therefore, the tutorials should be prepared and presented to a wide audience. Prospective presenters may discuss their proposals with the tutorials chair before the submission.

Call for Special Sessions: The program for ICASSP 2022 will include Special Sessions that complement the main program, in line with the technical scope of the conference. Please refer to the conference webpage for information about Special Session proposals and submissions.

Call for Exhibitors and Sponsors: ICASSP offers exhibitors and companies an opportunity to showcase their products and innovative solutions, as well as recruitment and networking opportunities. Please check the conference webpage for information about signing up to become an exhibitor or sponsor at ICASSP 2022.

SP Society Journal Paper Presentations: Authors of papers in the journals of the IEEE Signal Processing Society will have the opportunity to present their work at ICASSP 2022, subject to space availability and approval by the Technical Program Chairs. Only papers published between October 20, 2020 and October 19, 2021 are eligible for presentation at ICASSP 2022. The papers presented at ICASSP will neither be reviewed nor included in the proceedings for the IEEE Xplore Digital Library.

Open Preview: Open Preview allows conference proceedings to be available in the IEEE Xplore Digital Library, free of charge, to all customers, 30 days prior to the conference start date, through the conference end date.

IMPORTANT DATES

Special Session Proposal	9 August 2021
Special Session Acceptance	6 September 2021
Tutorial Proposals	11 October 2021
Paper Submissions	~~1 October~~ 6 October 2021
Grand Challenge Proposal	18 October 2021
Grand Challenge Acceptance	8 November 2021
Tutorial Acceptance	15 November 2021
SPS Journal/Letters Due	10 January 2022
Paper Acceptance	21 January 2022
Final Paper	16 February 2022
Author Registration	16 February2022
Open Preview	22 April - 27 May 2022
Show and Tell Proposals	7 March 2022

icassp 2022 Singapore

Summary of Links

- APSIPA ASC 2022: http://www.apsipa2022.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
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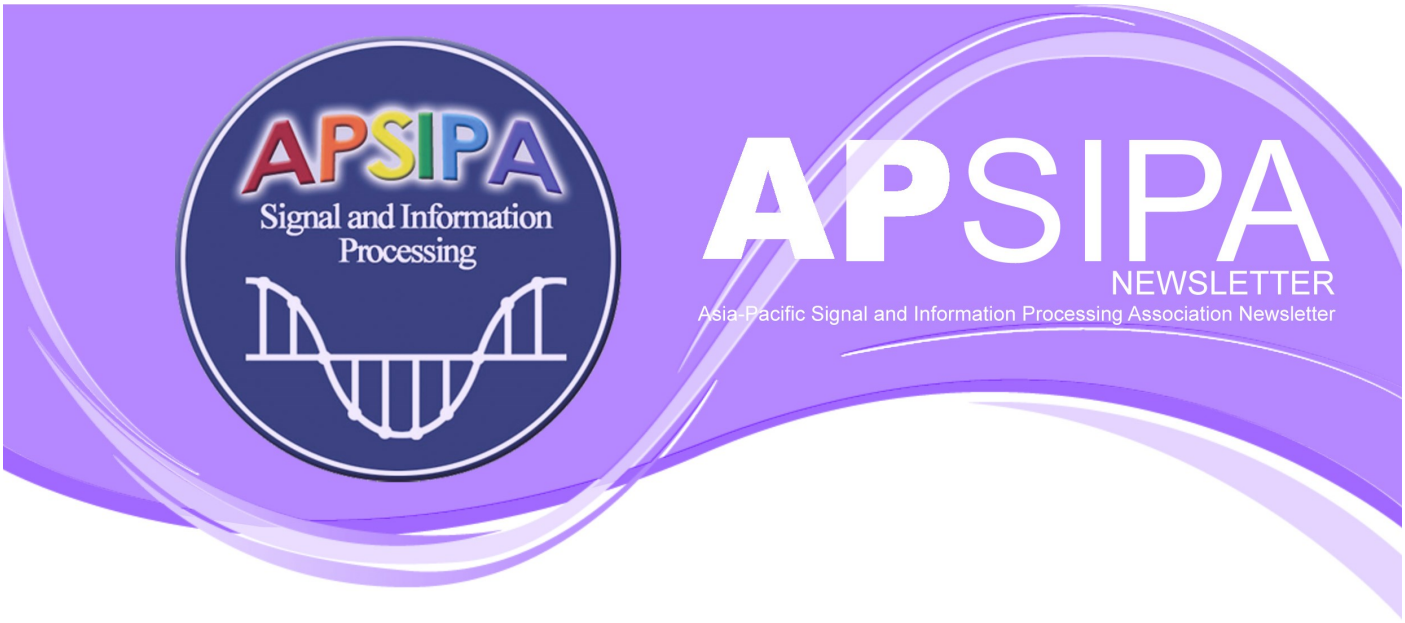

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