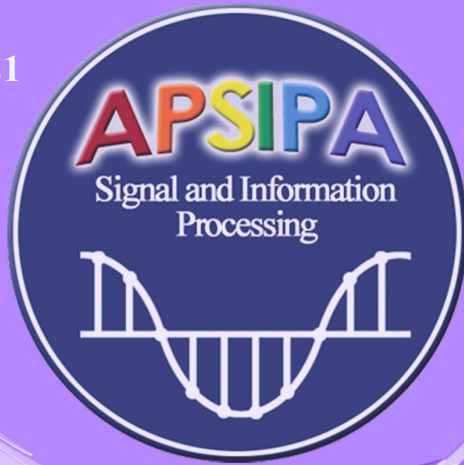


Issue 31  
June 2021



# APSIPA

NEWSLETTER  
Asia-Pacific Signal and Information Processing Association Newsletter

## Greetings!

Welcome to the June issue of the APSIPA newsletter.

In this issue, we have the pleasure to share the message from the President-Elect, APSIPA - Prof. Tatsuya Kawahara. In addition, we would like to reflect back on the success of the concluded 2020 APSIPA Annual Summit and Conference (APSIPA ASC 2020), which was held virtually in New Zealand on December 07-10, 2020.

Don't forget that the 13th APSIPA ASC 2021 will be held in Tokyo, Japan this year from 14-17 Dec. 2021. After careful consideration of the serious influence of COVID-19 worldwide, APSIPA ASC 2021 organizing committee has decided to hold this conference as a hybrid in-person/online event to encourage many more people to participate safely at APSIPA ASC 2021. More information is available at <http://www.apsipa2021.org/>.

Lastly, we invite you to send us your contributions to be published in the APSIPA Newsletter. You are also welcome to share your thoughts with us about future developments in this newsletter.

Please enjoy reading this issue!

**A/Prof. KokSheik Wong**  
EiC  
Monash University Malaysia  
Malaysia



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## Message from the President-Elect, APSIPA

**Professor Tatsuya Kawahara**

Kyoto University



Recently APSIPA marked the 12th anniversary, which is defined as one cycle in the oriental world. It is no longer a baby but has become a youth. It is growing thanks to the continuous support of many of you.

Last year, I served as one of the general chairs of APSIPA ASC 2020, which was supposed to be held in Auckland, New Zealand. Due to Covid-19, it was forced to be a virtual event. We are much worried if many people would submit papers and attend the conference in that situation. It was like a litmus test if APSIPA is meaningful and viable. And we passed it. The number of regular paper submissions reached 285, which was the largest in our history. There was no “no-show” in oral presentations. I was told by many people that they found the conference very active. APSIPA ASC is not a big conference, but in a very friendly atmosphere; we can easily find many friends or key persons in wide disciplines of signal processing. I believe this is one of the most important heritages we should pass to the next generation. Meanwhile, we should reach out to developing countries in the Asia Pacific region. This is another mission of APSIPA.

I have also served as the Editor-in-Chief of APSIPA Transaction of Signal and Information Processing since 2018. We are still struggling to boost this journal. The number of submissions and publications is steady but much behind the growth of the conference (or competing journals). As a professor, I often find my students like to submit papers to conferences but not to a journal. But it is important to have quality journal publications for our credibility and career. This is true to APSIPA. I do hope many people find the importance of the journal of our own.

APSIPA has started new initiatives, including local chapter activities. Covid-19 has changed not only our lifestyle but also the style of conference/meeting activities. As a result, we have many options for local and remote events. At this moment, it is not likely to re-start to travel globally in the near future, but I hope many people can move around this region and attend APSIPA ASC 2021 in Tokyo.



## APSIPA ASC 2020

### Auckland, New Zealand

### Empowering Societies with New Generation AI & Deep Machine Learning

Here is a brief report about the activities of the 12th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference held virtually in New Zealand on December 07-10, 2020. APSIPA ASC 2020 was the first virtually run APSIPA conference due to the pandemic of COVID-19. Despite this unexpected incident, the conference went very well, and all activities went smoothly using an efficient, flexible, and easy-to-use online conference running software. The committee worked very hard to go through this challenging new scenario of running conferences successfully. We appreciate the active support of all participants and sponsors; without them, we would not have such a successful conference.



The following statistics are metrics for the success of the APSIPA ASC 2020 conference.

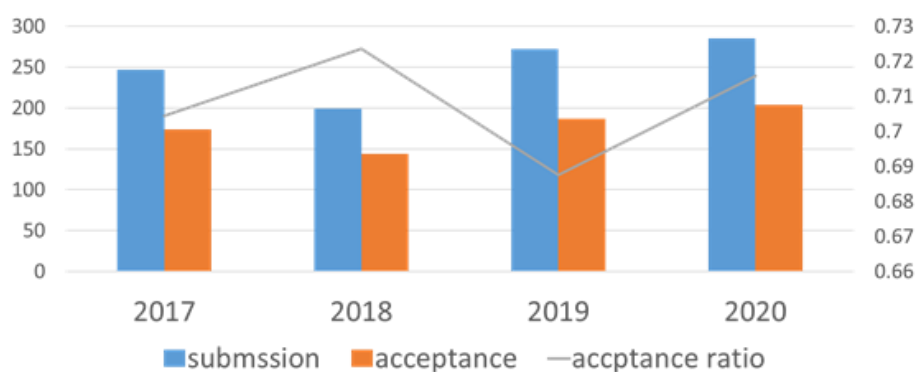
There have been more than 500 researchers virtually attended the conference.

Number of reviewers: 265

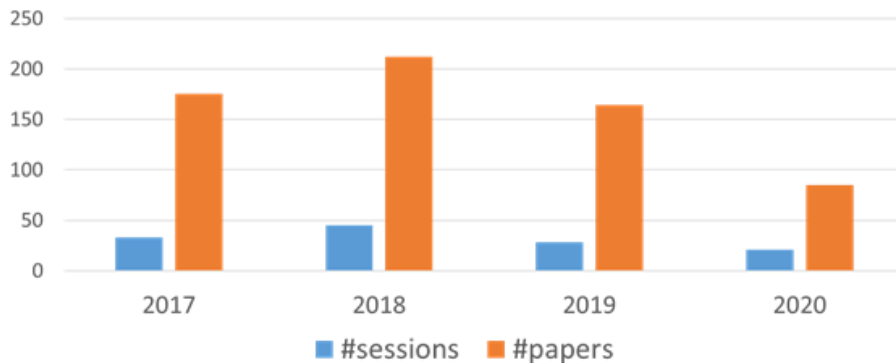
Number of Sessions: 50

Number of Papers presented: 287

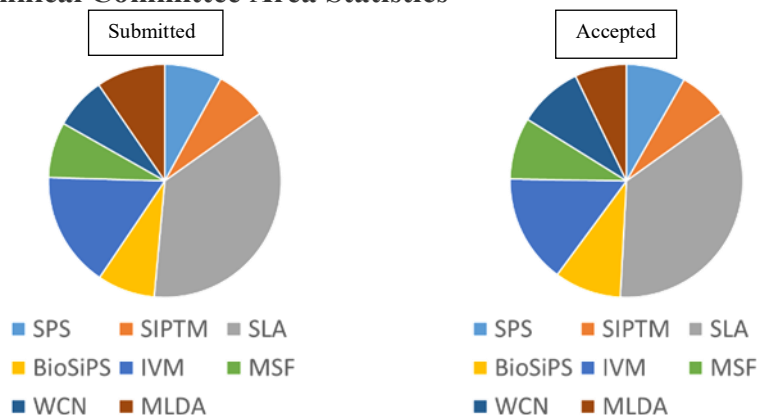
#### Paper Statistics – Regular Sessions



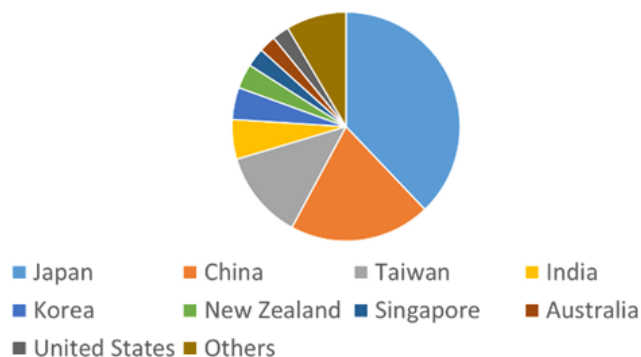
## Paper Statistics – Special Sessions



## Technical Committee Area Statistics



## First Authors' Country/Region Statistics



The program also included six excellent tutorials and sealed by an excellent one-day workshop demonstrated by eleven elite researchers in their fields.

These statistics are clear metrics for a successfully run conference despite the puzzling constraint imposed by the pandemic. All accepted papers have finally been accepted for indexed by EI compendex and archived by IEEE Xplore. The good news about this conference is that all the presentations have been recorded and are available on the APSIPA organization website for the first time. Thanks to all who contributed to making this conference happen.

*Waleed Abdulla*  
The University of Auckland



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## Call for papers of Special Issue in APSIPA T-SIP

### Special Issue: Deep Neural Networks: Representation, Interpretation, and Applications

#### Brief description:

Deep learning has been a popular research area in artificial intelligence with many applications in various of fields, such as object detection and recognition, and multimedia data understanding, restoration, and synthesis. Moreover, deep learning has also played a critical role in data science, especially for analyzing big data relying on the extractions of high-level abstractions for data representations through a hierarchical learning process. In realizing deep learning frameworks, both supervised and unsupervised approaches for training deep neural networks have been empirically investigated and applied in different applications. However, there is still very limited understanding on why deep networks can work well and how to design efficient deep models in the viewpoints of software and hardware. Moreover, for embedding deep models into mobile applications, efficient representation or compression of model parameters for model storage is also highly required. This special issue will focus on all aspects of deep learning in representation, interpretation, and applications. The special issue is mainly extended from the special session on Recent Advances in Deep Learning with Multimedia Applications of APSIPA ASC 2020 conference, but any other significant contributions in the related fields are also welcome. Topics of interest include, but are not limited to:

- Interpreting and Understanding Deep Neural Networks
- Deep Model Compression and Representation
- Deep Representation Learning with Multimedia Applications
- Deep Learning-based Multimedia Data Synthesis
- Deep Learning for Big Data Analytics
- Hardware Acceleration for Deep Learning

#### Editor(s) of the special issue:

Dr. Li-Wei Kang (National Taiwan Normal University, Taiwan)

Dr. Chia-Hung Yeh (National Taiwan Normal University, Taiwan)

#### Schedule:

- Submission Deadline: 30 June 2021
- First Review Decision: 15 August 2021
- Revisions Due: 30 September 2021
- Final Decision: 15 October 2021
- Final Manuscript: 1 November 2021
- Expected publication date: January 2022

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## Call for papers of Special Issue in APSIPA T-SIP

### Title: Information Processing for Understanding Human Attentional and Affective States

#### Brief description:

Recent advances in sensing technology allow us to access various physiological signals such as eye movements, brain activity, and so on. While there are many reports suggesting that those signals reflect our attentional and affective states, it is still a challenging issue to estimate those states from the physiological signals recorded during a behavioral task, mainly because of individual variability and motion artifacts. The special issue calls for papers that discuss the methods to solve the issues and their application to estimate human attentional and affective states. In addition to those topics, we welcome papers that address basic studies (e.g. model simulations, animal experiments, brain-inspired computing and so on) as long as they are related to the regulation of attentional and affective states.

List of topics include but not limited to:

- Behavior analysis of human and animals
- Biological signal processing
- Biomarkers for mental disorders
- Brain-inspired computing
- Estimation/prediction of attentional and affective states
- Psychometric indices

#### Editor(s) of the special issue:

Junichiro Yoshimoto (Nara Institute of Science and Technology, Japan)

Takatomi Kubo (Nara Institute of Science and Technology, Japan)

Unaizah Obaidellah (University of Malaya, Malaysia)

Kenji Yokotani (Tokushima University, Japan)

Kentaro Katahira (Nagoya University, Japan)

Yuki Maruno (Kyoto Women's University, Japan)

#### Schedule:

- Submission Deadline: 30 June 2021
- First Review Decision: 15 August 2021
- Revisions Due: 15 October 2021
- Final Decision: 30 November 2021
- Expected publication date: 31 December 2021



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## Call for papers of Themed Series in APSIPA T-SIP

### Title: Multi-Disciplinary Dis/Misinformation Analysis and Countermeasures

With the pervasiveness of social networks and media, digital information (health, climate, political, news articles, etc.) can be easily created and shared online by individuals, includes people and bots. This significantly changes how humans access, search and perceive information. More people are making their economic, political, health and daily life decisions by referring to online information due to its convenience and low cost. Yet, online social media has become a battleground for malicious attackers to fabricate and propagate massive amounts of disinformation, with the participation of massive groups of people online (leader-follower feedback loops). This is often referred to as the “info-demic”. The uncontrolled rapid propagation of disinformation can lead to severe consequences such as financial losses, hostile online environments, damaging people's confidence in trusting online information, and even endangering people's lives.

Dis/misinformation is a complex problem which cannot be well addressed in one traditional discipline. There is an emerging need for researchers of multiple disciplines (e.g., computing, communication, journalism, social psychology, law, etc.) to have a joint forum to understand the disinformation propagation mechanism, how people evaluate the authenticity of online information, and investigate potential solutions to combat info-demic. This themed series aims to provide a venue to facilitate idea exchange among researchers of relevant but diverse disciplines. Inter-disciplinary studies are especially welcomed. Interesting topics include but are not limited to:

- Information aspects
  - Definitions of information trustworthiness, authenticity, and/or credibility
  - Detection and prediction of dis/misinformation and bias
  - New approaches to extract ground truth or labeling information
  - Defining and detecting/classifying boundaries of journalistic behavior online
  - Suitability of news content from journalistic entities to surface ground truth
- User aspects
  - Definitions and analysis of online authentic behavior
  - Human behavior analysis against dis/misinformation in social media
  - Human behavior regulation on political disinformation
  - Compatibility of regulating social media content with freedom of expression
  - Studies on mechanisms of trust establishment
  - Application of moral foundations & ethical frameworks to “participatory disinformation”
  - Analysis and comparison of human performance in the face of DeepFake media
- Propagation/Communication aspects
  - Dis/misinformation (e.g. health, news, political, climate) propagation mechanism
  - Data-driven approaches on propagation patterns
  - Connections or relationships between propagation and authenticity

- Model aspects
  - Countermeasures against formation and circulation of dis/misinformation
  - Explainable AI for detection of dis/misinformation
  - New datasets and evaluation methodologies for dis/misinformation identification
  - DeepFake media (e.g. image, video, audio) generation and detection
  - Artificial intelligence chatbots as information assistant or opinion influencer
  - Open-source toolkits for DeepFake detection

Each paper submitted to this series will be reviewed with the first-come-first-serve principle. The first round of decision targets at 4 weeks. Each paper will be published as an open access article immediately after its acceptance. Once all papers in this series are published, they will be assembled into an online book with an editorial written by the guest editorial team. If a paper cannot be accepted within the publication window, it will be changed to a regular paper. If you are interested in paper submission, please refer to: <http://cambridge.org/sip/ifc>.

**Submission Window:**

May 16, 2021 to October 31, 2021

**Publication Window:**

June 16 to December 31, 2021

**Guest Editorial Team:**

Mauro Barni, Professor of Information Engineering, University of Siena, Italy

Yi Fang, Professor of Computer Science and Engineering, Santa Clara University, USA

Yuhong Liu, Professor of Computer Science and Engineering, Santa Clara University, USA

Kazutoshi Sasahara, Professor of Environment and Society, Tokyo Institute of Technology, Japan

Subramaniam Vincent, Director of Journalism and Media Ethics, Santa Clara University, USA

Xinchao Wang, Professor of Electrical and Computer Engineering, National University of Singapore, Singapore

Zhizheng Wu, Facebook Inc, USA

Hong (Vicky) Zhao, Professor of Automation, Tsinghua University, China



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## Latest Articles from APSIPA Transactions on Signal and Information Processing (ATSIP)

Selection from ChinaMM 2020

- **Analyzing public opinion on COVID-19 through different perspectives and stages**

- Yuqi Gao, Hang Hua, Jiebo Luo
- DOI: <https://doi.org/10.1017/ATSIP.2021.5>
- Published online: 17 March 2021, e8

Original paper

- **Audio-to-score singing transcription based on a CRNN-HSMM hybrid model**

- Ryo Nishikimi, Eita Nakamura, Masataka Goto, Kazuyoshi Yoshii
- DOI: <https://doi.org/10.1017/ATSIP.2021.4>
- Published online: 20 April 2021, e7

- **Speech emotion recognition based on listener-dependent emotion perception models**

- Yuchao Liu, Meng Liu, Jianhua Yin
- DOI: <https://doi.org/10.1017/ATSIP.2021.7>
- Published online: 20 April 2021, e6

- **Automatic Deception Detection using Multiple Speech and Language Communicative Descriptors in Dialogs**

- Huang-Cheng Chou, Yi-Wen Liu, Chi-Chun Lee
- DOI: <https://doi.org/10.1017/ATSIP.2021.6>
- Published online: 16 April 2021, e5

Industrial Technology Advances

- **Demystifying data and AI for manufacturing: case studies from a major computer maker**

- Yi-Chun Chen, Bo-Huei He, Shih-Sung Lin, Jonathan Hans Soeseno, Daniel Stanley Tan, Trista Pei-Chun Chen, Wei-Chao Chen
- DOI: <https://doi.org/10.1017/ATSIP.2021.3>
- Published online: 08 March 2021, e4

Original paper

- **Toward community answer selection by jointly static and dynamic user expertise modeling**

- Yuchao Liu, Meng Liu, Jianhua Yin
- DOI: <https://doi.org/10.1017/ATSIP.2020.28>
- Published online: 01 March 2021, e3

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## Most Read Articles from ATSIP

<https://www.cambridge.org/core/journals/apsipa-transactions-on-signal-and-information-processing/most-read>

- **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
- **A tutorial survey of architectures, algorithms, and applications for deep learning**
  - Li Deng
  - DOI: <https://doi.org/10.1017/atsip.2013.9>
  - Published online: 22 January 2014, e2
- **An Overview of Coding Tools in AV1: the First Video Codec from the Alliance for Open Media**
  - Yue Chen, Debargha Mukherjee, Jingning Han, Adrian Grange, Yaowu Xu, Sarah Parker, Cheng Chen, Hui Su, Urvang Joshi, Ching-Han Chiang, Yunqing Wang, Paul Wilkins, Jim Bankoski, Luc Trudeau, Nathan Egge, Jean-Marc Valin, Thomas Davies, Steinar Midtskogen, Andrey Norkin, Peter de Rivaz, Zoe Liu
  - DOI: <https://doi.org/10.1017/ATSIP.2020.2>
  - Published online: 24 February 2020, e6

## Most Cited Articles from ATSIP for the Last 3 Years

<https://www.cambridge.org/core/journals/apsipa-transactions-on-signal-and-information-processing/most-cited>

- **A comprehensive study of the rate-distortion performance in MPEG point cloud compression**
  - Evangelos Alexiou, Irene Viola, Tomás M. Borges, Tiago A. Fonseca, Ricardo L. de Queiroz, Touradj Ebrahimi
  - DOI: <https://doi.org/10.1017/ATSIP.2019.20>
  - Published online: 12 November 2019, e27
- **Grayscale-based block scrambling image encryption using YCbCr color space for encryption-then-compression systems**
  - Warit Sirichotedumrong, Hitoshi Kiya
  - DOI: <https://doi.org/10.1017/ATSIP.2018.33>
  - Published online: 01 February 2019, e7
- **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

## APSIPA Membership

### 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

To motivate APSIPA members to participate in APSIPA conferences, the registration for the [12th APSIPA conference](#) implies an automatic renewal of APSIPA membership up to the end of December 2021.

You may join as:

- **Student Membership:** Student members are those who are enrolled full time in universities, institutes, or any accredited degree
- **Full 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](#)

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)

**Act Today! Join us at: <http://www.apsipa.org/reg.asp>**

## Local Chapters

### Call for Establishing APSIPA Local Chapters

APSIPA starts Local Chapter system from the beginning of 2020. If you are interested in establishing a local chapter in your region, please see the guideline and submit the application form to APSIPA Headquarter and VP Membership Relations and Development. Membership Benefits:

### APSIPA Local Chapters

APSIPA spans more than 20 countries in Asia-Pacific region, but local Chapters serve APSIPA members by holding meetings at the local level. If you're interested in connecting with professionals, academics and students in your region, getting involved locally provides exciting opportunities for networking, research, and project collaboration with others.

Chapters are constituted by a minimum of ten active members, and are established by application to APSIPA.

APSIPA offers unique benefits to individual groups, including industry, students and young professionals, and women in APSIPA, and numerous specialized events throughout the year.

For more details, please see the guideline of APSIPA Local Chapters. If you want to establish a local chapter in your region, please fulfill the application form and submit it to APSIPA Headquarter and VP Membership Relations and Development.

[APSIPA Chapter Operation Manual](#)

[APSIPA Chapter Application Form](#)

### Webpage for APSIPA Local Chapters

- (a) Japan Chapter  
<http://www.apsipa.org/chapter/Japan.htm>
- (b) Taiwan Chapter  
<http://www.apsipa.org/chapter/Taiwan.htm>
- (c) US Chapter  
<http://www.apsipa.org/chapter/US.htm>



# 13th Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)

DECEMBER 14 – 17, 2021, TOKYO, JAPAN  
WWW.APSIPA2020.ORG



## Signal & Information Processing — Science for Signals, Data, and Intelligence

### Important Dates

April 1, 2021	May 1, 2021	July 1, 2021	July 1, 2021	August 31, 2021	October 1, 2021	October 1, 2021	December 14 – 17, 2021
Submission of Proposals for Special Sessions	Submission of Proposals for Forum, Panel & Tutorial Sessions	Submission of Regular Papers	Submission of Special Session Papers	Notification of Papers Acceptance	Submission of Camera-Ready Papers	Author (Early-Bird) Registration Deadline	Tutorials, Summit and Conference Dates

APSIPA ASC 2021 ([www.apsipa2021.org](http://www.apsipa2021.org)) is the 13th annual conference organized by Asia-Pacific Signal and Information Processing Association (APSIPA), which will be held on December 14 – 17, 2021, Tokyo, Japan. 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 Auckland, New Zealand (2020), Lanzhou, China (2019), Hawaii, USA (2018), Kuala Lumpur, Malaysia (2017), Jeju, Korea (2016), Hong Kong SAR (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 signal and information processing theories, algorithms, securities, implementations, and 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: Algorithms, 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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Danilo Mandic

## Summary of Links

APSIPA ASC 2021: <http://www.apsipa2021.org/>

APSIPA Transaction on Signal and Information Processing: <http://journals.cambridge.org/sip>

Paper Submission to APSIPA Transaction on Signal and Information Processing:  
<http://mc.manuscriptcentral.com/apsipa>

APSIPA Industrial Activities: <http://www.apsipa.org/industrial.htm>

APSIPA Friend's Lab: <http://www.apsipa.org/friendlab/FriendLabs.htm>

APSIPA Membership Registration/Renewal: <http://www.apsipa.org/reg.asp>

APSIPA Local Chapters: <http://www.apsipa.org/chapter/index.html>

APSIPA Magazine: [http://www.apsipa.org/doc/magazine/apsipa\\_magazine2018.pdf](http://www.apsipa.org/doc/magazine/apsipa_magazine2018.pdf)

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



## APSIPA Who's Who

**President:** Anthony Kuh, University of Hawaii at Manoa, USA

**President-Elect:** Tatsuya Kawahara, Kyoto University, Japan

**Past Presidents:** Sadaoki Furui (2009-2012), C.C. Jay Kuo (2013-2014), Haizhou Li (2015-2016), Wan-Chi Siu (2017-2018)

**Immediate Past President:** Hitoshi Kiya, Tokyo Metropolitan University, Japan

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**Kazuya Takeda**, Nagoya University, Japan

**Antonio Ortega**, University of Southern California, USA

**Chung-Hsien Wu**, National Cheng Kung University, Taiwan

### Headquarters

#### Address:

Asia Pacific Signal and Information Processing Association,  
Centre for Signal Processing,  
Department of Electronic and Information Engineering,  
The Hong Kong Polytechnic University,  
Hung Hom, Kowloon, Hong Kong.

#### Officers:

Director: Wan-Chi Siu, email: [enwcsiu@polyu.edu.hk](mailto:enwcsiu@polyu.edu.hk)

Manager: Kin-Man Lam, Kenneth,

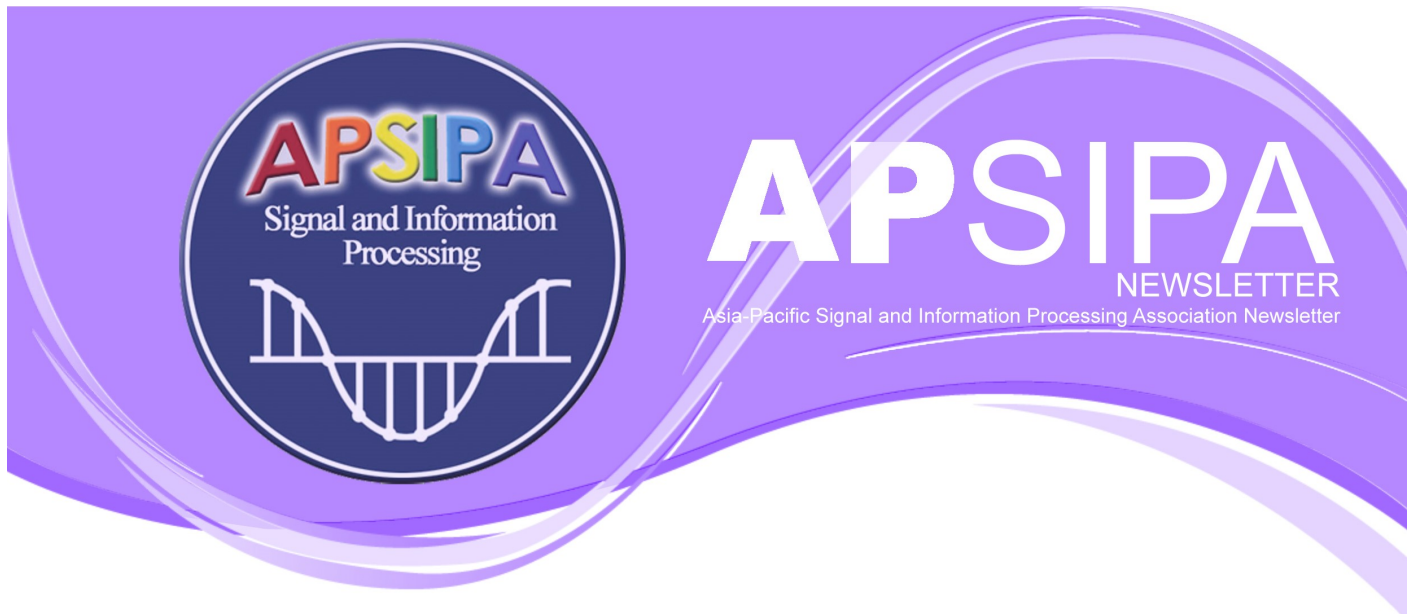
email: [enklam@polyu.edu.hk](mailto:enklam@polyu.edu.hk)

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Treasurer: Yuk-Hee Chan, Chris,

email: [enyhchan@polyu.edu.hk](mailto:enyhchan@polyu.edu.hk)



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**Sanghoon Lee** (vice Editor-in-Chief), Yonsei University, Korea.

**Bonnie Law** (Past Editor-in-Chief), The Hong Kong Polytechnic University, Hong Kong.

**Jiantao Zhou**, University of Macau, Macau.

**Yoshinobu Kajikawa**, Kansai University, Japan.

**Xie Lei**, Northwestern Polytechnical University, China.

**Are you an APSIPA member?**

**If not, then register online at**

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