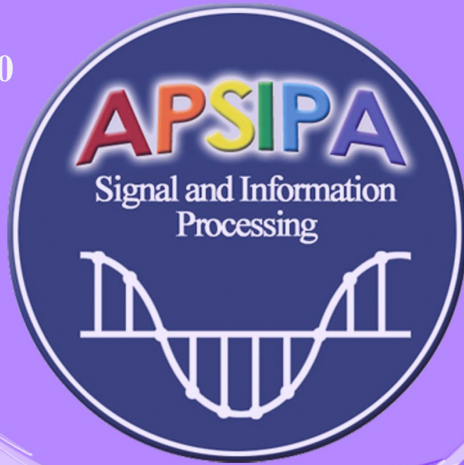


Issue 27
July 2020



APSIPA

NEWSLETTER
Asia-Pacific Signal and Information Processing Association Newsletter

Greetings!

Welcome to the July issue of the APSIPA newsletter.

In this issue, we have the pleasure to have Dr. Seishi Takamura (VP-Industrial Relations and Development) as our co-editor. Dr. Takamura will be sharing about Industrial Governance Board and its members, Industrial Distinguished Leaders (IDLs) Program, Strategies as well as Future Plans.

Following the announcement of the seven 2020-2021 Distinguished Lecturers by Prof. Woon-Seng Gan (VP-Institutional Relations and Education Program) early this year, we would like to share their biographies and distinguished lectures topics.

In response to COVID-19 measures, the Organizing Committee has decided that APSIPA Annual Summit and Conference will be held in fully virtual style, from 7th to 10th December 2020. The submission deadline for regular and special session papers is 1st August 2020. More information is available at <http://www.apsipa2020.org/>.

Enjoy reading this issue!

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APSIPA Distinguished Lecturers for 2020-2021

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

Prof. Huihui Bai



Huihui Bai received her B.S. degree and her Ph.D. degree from Beijing Jiaotong University in 2001 and 2008, respectively. She is currently a professor in Institute of Information Science in Beijing Jiaotong University. Her research interests are image/video processing, image/ video coding and transmission. She has published over 80 journal and conference publications, one U.S. granted patent, one Australian innovation patent, 8 national invention patents. She has hosted many scientific research projects, such as Natural Science Foundation of China, Natural Science Foundation of Beijing and Natural Science Foundation of Jiangsu. Furthermore, she received Beijing science and technology achievement award (first class, second author), Shanxi science and technology achievement award (third class, fourth author) and Shanxi higher education science and technology achievement award (first class, fourth author). Additionally, she was selected as one of Beijing higher education young elite teacher project, star track of Microsoft Research Asia and creative fund from CCF and Tencent.

Distinguished Lecture Titles:

- Adaptive Information Filtering Network for Accurate and Fast Image Super-Resolution
- Learning a Deep Dual Attention Network for Video Super-Resolution
- Multiple Description Convolutional Neural Networks for Image Compression

Prof. Jun Du



Jun Du received the B.Eng. and Ph.D. degrees from the Department of Electronic Engineering and Information Science, University of Science and Technology of China (USTC), Hefei, China, in 2004 and 2009, respectively. From July 2009 to June 2010, he worked with iFlytek Research on speech recognition. From July 2010 to January 2013, he joined Microsoft Research Asia as an Associate Researcher, working on handwriting recognition, OCR, and speech recognition. Since February 2013, he has been with the National Engineering Laboratory for Speech and Language Information Processing, USTC.

Distinguished Lecture Title:

- An introduction to Automatic Speech Recognition (ASR)

Prof. Nobutaka Ono

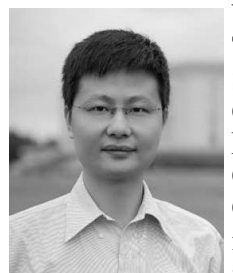


Nobutaka Ono received the B.E., M.S., and Ph.D. degrees from The University of Tokyo, Tokyo, Japan, in 1996, 1998, and 2001, respectively. He became a research associate in 2001 and a lecturer in 2005 with The University of Tokyo. He moved to the National Institute of Informatics in 2011 as an associate professor and became a professor in Sep. 2017. He moved to Tokyo Metropolitan University in Oct. 2017. His research interests include acoustic signal processing, specifically, microphone array processing, source localization and separation, machine learning and optimization algorithms for them. He is the author or co-author of more than 250 articles in international journal papers and peer-reviewed conference proceedings. He was a tutorial speaker at ISMIR 2010 and ICASSP 2018, a chair of SiSEC (Signal Separation Evaluation Campaign) evaluation committee in 2013 and 2015. He served as an associate editor of the IEEE Transactions on Audio, Speech, and Language Processing from 2012 to 2015, and a member of the IEEE Audio and Acoustic Signal Processing (AASP) Technical Committee from 2014 to 2019. He received the best paper awards from IEEE ISIE in 2008, from IEEE IS3C in 2014, the excellent paper award from IIHMSP in 2014, the unsupervised learning ICA pioneer award from SPIE.DSS in 2015, and the best paper award from APSIPA in 2018.

Distinguished Lecture Titles:

- Stable and Fast Blind Source Separation Based on Auxiliary Function Method
- Asynchronous and Distributed Microphone Array

Prof. Yan Chen



YAN CHEN received the bachelor's degree from the University of Science and Technology of China, in 2004, the M.Phil. degree from the Hong Kong University of Science and Technology, in 2007, and the Ph.D. degree from the University of Maryland, College Park, MD, USA, in 2011. He was with Origin Wireless Inc. as a Founding Principal Technologist, and with University of Electronic Science and Technology of China as a Professor. Since March 2020, he has been a Professor with the School of Cyberspace Security, University of Science and Technology of China. His research interests include multimedia and wireless sensing. He was the recipient of multiple honors and awards, including the Best Student Paper Award at the PCM in 2017, Best Student Paper Award at the IEEE ICASSP, in 2016, the Best Paper Award at the IEEE GLOBECOM, in 2013, the Future Faculty Fellowship and Distinguished Dissertation Fellowship Honorable Mention from the Department of Electrical and Computer Engineering, in 2010 and 2011, the Finalist of the Dean's Doctoral Research Award from the A. James Clark School of Engineering, the University of Maryland, in 2011, and the Chinese Government Award for outstanding students abroad, in 2010

Distinguished Lecture Titles:

- Radio Vision
- Personalized Fashion Design
- Non-Line-of-Sight Imaging

Prof. Toshihisa Tanaka



Toshihisa Tanaka received the B.E., the M.E., and the Ph.D. degrees from the Tokyo Institute of Technology in 1997, 2000, and 2002, respectively. From 2000 to 2002, he was a JSPS Research Fellow. From October 2002 to March 2004, he was a Research Scientist at RIKEN Brain Science Institute. In April 2004, he joined Department of Electrical and Electronic Engineering, the Tokyo University of Agriculture and Technology, where he is currently a Professor. In 2005, he was a Royal Society visiting fellow at the Communications and Signal Processing Group, Imperial College London, U.K. From June 2011 to October 2011, he was a visiting faculty member in Department of Electrical Engineering, the University of Hawaii at Manoa.

His research interests include a broad area of signal processing and machine learning including brain and biomedical signal processing, brain-machine interfaces and adaptive systems. He is a co-editor of *Signal Processing Techniques for Knowledge Extraction and Information Fusion* (with Mandic, Springer), 2008 and a leading co-editor of *Signal Processing and Machine Learning for Brain-Machine Interfaces* (with Arvaneh, IET, UK), 2018.

He served as an associate editor and a guest editor of special issues in journals including *Neurocomputing* and *IEICE Transactions on Fundamentals and Computational Intelligence and Neuroscience* (Hindawi). Currently he serves an editor-in-chief of *Signals* (MDPI), and serves as associate editors of *IEEE Transactions on Neural Networks and Learning Systems*, *Neural Networks* (Elsevier), *Applied Sciences* (MDPI), and *Advances in Data Science and Adaptive Analysis* (World Scientific). Furthermore, he served as a member-at-large, board of governors (BoG) of Asia-Pacific Signal and Information Processing Association (APSIPA). He is a distinguished lecturer of APSIPA. He is a senior member of IEEE, and a member of IEICE, APSIPA, the Society for Neuroscience, and the Japan Epilepsy Society.

Distinguished Lecture Titles:

- AI-based diagnostic-aid of epileptic electroencephalogram
- Signal processing and machine learning for brain-machine interfaces
- Neuromusicology with machine learning – how human understands music

Prof. Shogo Muramatsu



Shogo MURAMATSU received the B.E., M.E. and Ph.D. degrees from Tokyo Metropolitan University, Tokyo, Japan, in 1993, 1995 and 1998, respectively. From 1997 to 1999, he worked at Tokyo Metropolitan University. In 1999, he joined Niigata University, where he is currently a Professor in the Faculty of Engineering. From 2003 to 2004, he was a Visiting Researcher at the University of Florence, Italy. His research interests include multidimensional signal processing, multi-rate systems, image processing, video analysis, and embedded vision systems. Prof. Muramatsu served as a Treasurer for IEEE Signal Processing Society Tokyo Joint Chapter from 2017 to 2018. He is an Associate Editor for the *IEEE Transactions on Signal Processing* since 2019 and a Senior Member of IEEE, IEICE (Institute of Electronics, Information, and Communication Engineers of Japan) and a Member of APSIPA (Asia-Pacific Signal and Information Processing Association) and ITE (Institute of Image Information and Television Engineers of Japan).

Distinguished Lecture Title:

- “Sparsity-Aware Image and Volumetric Data Restoration with Convolutional Dictionary Learning”

Prof. Yo-Sung Ho



Dr. Yo-Sung Ho, IEEE Fellow, received his B.S. and M.S. degrees in electronic engineering from Seoul National University, Seoul, Korea, in 1981 and 1983, respectively, and the Ph.D. degree in electrical and computer engineering from the University of California, Santa Barbara, in 1990. He joined ETRI (Electronics and Telecommunications Research Institute), Daejeon, Korea, in 1983. From 1990 to 1993, he was with North America Philips Laboratories, Briarcliff Manor, New York, where he was involved in development of the Advanced Digital High-Definition Television (AD-HDTV) system. In 1993, he rejoined the technical staff of ETRI and was involved in development of the Korean DBS Digital Television and High-Definition Television systems. Since 1995, he has been with Gwangju Institute of Science and Technology (GIST), as a Professor in School of Electrical Engineering and Computer Science. Since August 2003, he has been Director of Realistic Broadcasting Research Center at GIST in Korea. He has served as Associate Editors of IEEE Transactions on Multimedia (T-MM) and IEEE Transactions on Circuits and Systems Video Technology (T-CSVT). His research interests include Digital Image and Video Coding, Image Analysis and Image Restoration, Three-dimensional Image Modeling and Representation, Advanced Source Coding Techniques, Augmented Reality (AR) and Virtual Reality (VR), Three-dimensional Television (3DTV) and Realistic Broadcasting Technologies.

Distinguished Lecture Title:

- 3D Video Processing for Immersive AR/VR Services

Sharing from VP-IRD: Introduction of Industrial Governance Board

Dr. Sieshi Takamura
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Greetings! It is my greatest honor to be able to serve as the Vice President of the APSIPA Industrial Relations and Development (VP-IRD) for 2020-2021. I've been with industry for almost quarter century and would like to work with all of you on this important role and serve our community. In this article, I'd like to share what our missions are and how we contribute to realize them.

What IGB is

APSIPA Industrial Governance Board (IGB) is a team formed to reflect the leading industries in APSIPA related areas, and consider APSIPA's geographical outreach. According to APSIPA Bylaws, VP-IRD Chairs the IGB. The IGB members shall serve a renewable 2-year term, starting January 1 of the year, with a maximum of two consecutive terms. The IGB is consisted of following three committees:

- Industrial Publication Committee (IPC),
- Industrial Forum Committee (IFC) and
- Industrial Membership Committee (IMC).

IGB Members

I am happy to announce that this year APSIPA welcomes eleven new IGB members including myself. A deputy position has been newly introduced this year (Dr. Chris Gwo Giun Lee as Deputy VP-IRD and Deputy IGB Chair), and two new Chairs are appointed (Dr. Toshihiko Sugie as IFC Chair, Dr. Chii-Wann Lin as IMC Chair), and seven new members has joined IGB.

The IGB Chairs are as follows:

Dr. Seishi Takamura



NTT Corporation, Japan

(VP-IRD, IGB Chair)

<http://www.apsipa.org/industrial.htm#SeishiTakamura>



Prof. Chris Gwo Giun Lee

NCKU, Taiwan.

(Deputy VP-IRD, IGB Deputy Chair)

<http://www.apsipa.org/industrial.htm#ChrisGwoGiunLee>



Dr. Ning Xu

Amazon, USA

(IPC Chair)

<http://www.apsipa.org/industrial.htm#NingXu>



Dr. Toshihiko Sugie,

NTT Electronics, Japan

(IFC Chair)

<http://www.apsipa.org/industrial.htm#ToshihikoSugie>



Dr. Chii-Wann Lin,

ITRI, Taiwan

(IMC Chair)

<http://www.apsipa.org/industrial.htm#ChiiWannLin>

The grand members of APSIPA IGB are as follows: An asterisk (*) indicates the new member.

Industrial Publication Committee (IPC)

Ning Xu, Amazon, USA (Chair)

Anlei Dong, Microsoft, USA

Chong Chen, Uber ATG, USA

*Chongyang Ma, Kwai, USA

Hongcheng Wang, Comcast, USA

I-Ming Pao, Adobe, USA

Li Tao, Samsung, USA

Qian Chen, Facebook, USA

Weidong Zhang, JD.com, USA

Yong Liu, Apple, USA

Yu-Chen Sun, Qualcomm, USA

*Zhou Ren, Wormpex AI Research, USA

Industrial Forum Committee (IFC)

*Toshihiko Sugie, NTT Electronics, Japan (Chair)

Avinash L Varna, Intel, USA

Xiaozhong Xu, Tencent, USA

Ying Li, IBM, USA

Sunil Bharitkar, HP Labs, USA

Bin Shen, Pinterest, USA

*Tomokazu Murakami, Hitachi, Japan

*Kazuo Sugimoto, Mitsubishi Electric, Japan

Industrial Membership Committee (IMC)

*Chii-Wann Lin, ITRI, Taiwan (Chair)

Qi Wei, Siemens Research, USA

Qirui Huang, Huawei, Singapore

Ying Li, Cirrus, USA

Jiguang Li, Goforward, China

*Yohei Kawaguchi, Hitachi, Japan

*Jianquan Liu, NEC, Japan

*Kuansan Wang, Microsoft, USA

Xi Wang, Fujitsu Lab, USA

Hui Dong, Huawei, USA

Lynn Lu, Nokia, China

Ramesh Subrahmaniam, Infinera, USA

Wenda Ni, Microsoft, USA

Yasunori Owada, NICT, Japan

Tianran Liang, Google, USA

Industrial Distinguished Leaders (IDLs) Program

One of the main jobs of IGB is to award APSIPA IDLs. We 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. Past recipients can be found at <http://www.apsipa.org/industrial.htm#IDL>.

As for the status of IDLs for the class of 2019 Fall, we had selected 15 IDL candidates and we are about to finalizing IDLs. As for the status of IDLs for the class of 2020 Spring, we had nominated 12 well-qualified individuals and selected 10 of them as IDL candidates. Currently they are under selection.

Strategies and Future Plans of IGB

Followings are IGB's three main strategies:

1. Build kernel value foundation

- Industrial executives - Source of Vision (a.k.a. Visionary leaders)
- Active industrial members – Source of Energy (a.k.a. Advisory leaders & members)

2. Build platforms for exposure

- Use public demonstration platforms (forum, conference, journal, newsletter, magazine) to expose the kernel values

3. Industrial member development

- Activities demonstrate power to gather industrial members
- Benefit to community that promotes the image of APSIPA

One of the important missions of IGB is to promote industrial activities (such as distinguished leaders, industry forums) in signal and information processing among our APSIPA members. We'll contribute Industry Forum of APSIPA ASC by recommending prospective speakers and by organizing some of the sessions. In addition, we contribute by collaborating with other meetings such as IEEE Region 10 flagship conferences such as TENCON. I'm appointed as an Industry Forum Co-Chair of APSIPA ASC 2021, and have been serving as an IEEE Region 10 Treasurer 2019-2020. Our Deputy Chair, Prof. Lee has been serving as an IEEE Region 10 Industry Relations Committee Chair 2019-2020. Our IFC Chair, Dr. Sugie, has been serving as TENCON2020 Industry Forum Chair. IGB members will continue seeking the opportunities how we can best contribute to APSIPA members.

For more information about APSIPA Industrial Activities, please visit <http://www.apsipa.org/industrial.htm>.

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

. An analysis of speaker dependent models in replay detection

- . Gajan Suthokumar, Kaavya Sriskandaraja, Vidhyasaharan Sethu, Eliathamby Ambikairajah, Haizhou Li
- . DOI: <https://doi.org/10.1017/ATSIP.2020.9>
- . Published online: 30 April 2020, e14

. 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

. High dynamic range image compression based on visual saliency

- . Jin Wang, Shenda Li, Qing Zhu
- . DOI: <https://doi.org/10.1017/ATSIP.2020.15>
- . Published online: 27 May 2020, e16

. Dimensional speech emotion recognition from speech features and word embeddings by using multitask learning

- . Yasutaka Furusho, Kazushi Ikeda
- . DOI: <https://doi.org/10.1017/ATSIP.2020.14>
- . Published online: 27 May 2020, e17

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

- . **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

- . **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

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>

- . **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

- . **Automatic exposure compensation using an image segmentation method for single-image-based multi-exposure fusion**
 - . Yuma Kinoshita, Hitoshi Kiya
 - . DOI: <https://doi.org/10.1017/ATSIP.2018.26>
 - . Published online: 02 January 2019, e22

- . **Global and local uncertainty principles for signals on graphs**
 - . Nathanael Perraudin, Benjamin Ricaud, David I Shuman, Pierre Vandergheynst
 - . DOI: <https://doi.org/10.1017/ATSIP.2018.2>
 - . Published online: 02 April 2018, e3

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 [11th APSIPA conference](#) implies an automatic renewal of APSIPA membership up to the end of December 2020.

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 Head quarter 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](#)

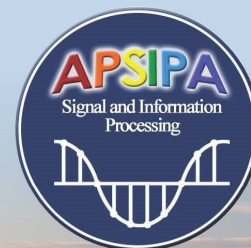
[APSIPA Chapter Application Form](#)

12th Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)

(Auckland Fully Virtual Conference)

DECEMBER 7 – 10, 2020, AUCKLAND, NEW ZEALAND

WWW.APSIPA2020.ORG



Timeline/Important Dates

March 1, 2020	April 1, 2020	April 8, 2020	August 1, 2020	October 1, 2020	November 1, 2020	November 1, 2020	December 7 – 10, 2020
Submission of Proposals for Special Sessions, Forum, Panel & Tutorial Sessions	Notification of Acceptance for Special Sessions, Forum, Panel & Tutorial Sessions	Online Submission Website Ready for Full, Short and Special Sessions Papers Upload	All Papers Submission	Notification of All Papers Acceptance	Submission of Camera-Ready Papers	Early Bird Authors Registration	Tutorials, Summit and Conference Dates

Central Auckland from Kingsland

Empowering societies with new generation AI & deep machine Learning

APSIPA ASC 2020 (www.apsipa2020.org) is the 12th annual conference organised by Asia-Pacific Signal and Information Processing Association (APSIPA), which will be held on December 7 – 10, 2020, Auckland, New Zealand. Founded in 2009, APSIPA organisation (www.apsipa.org) aims to promote research and education in signal processing, information technology, and communications. The annual conferences have been held previously in Lanzhou, China (2019), Hawaii, USA (2018), Kuala Lumpur, Malaysia (2017), Jeju, Korea (2016), Hong Kong, China (2015), Siem Reap, Cambodia (2014), Kaohsiung, China (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. Call for Special Sessions – APSIPA ASC 2020 program augments the main program with selected special sessions. Please refer to the conference web page for information about the proposals and submissions of the special sessions. Call for Tutorials – Organising tutorials at APSIPA ASC 2020 is one of APSIPA organisation strategies to proliferate and ease learning in core subjects and new topics in evolving research branches. Therefore, the tutorials should be addressed to attract a wide audience. Applicants interested in presenting tutorials may discuss their proposals with one of the tutorial chairs for more information. Call for Exhibitors and Sponsors – APSIPA ASC 2020 organisers encourage exhibitors, publishers, and companies to showcase their products during the conference period. 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.

Organising Committee

Honorary Chairs: Sadaoki Furui, K.J. Ray Liu, Haizhou Li, Wan-Chi Siu, Hitoshi Kiya, Antony Kuh General Chairs: Waleed Abdulla, C.-C. Jay Kuo, Tatsuya Kawahara, Sing Kiong Ngung TPC Chairs: Nam Ik Cho, Jiwoo Huang, Koichi Shinoda, Yoshinobu Kajikawa TPC Co-Chairs: Mingyi He, Dong Wang, Supavadee Aramvith, Isao Echizen, Osamu Takyu, Zhiyi Yu, Kazushi Ikeda Plenary Chairs: Min Wu, Woon Seng Gan, Antonio Ortega Tutorial Chair: Eliathamby Ambikairajah Tutorial Co-Chair: Vidhyasaharan Sethu Overview Session Chairs: Chung-Hsien Wu, Kai-Kuang Ma Industrial Forum Chair: Xun Xu Special Sessions Chairs: Wen-Huang Cheng, Jiaying Liu, Chang-Su Kim Sponsor Chairs: Thomas Fang Zheng, Yun Sing Koh, Lei Xie, Nitish Patel Finance Chairs: Nirmal Nair, Kenneth Lam Registration Chairs: Bonnie N.F. Law, Iman T. Ardekani Publication Chair: Sanghoon Lee Web Chair: Je-Won Kang Publicity Co-Chairs: Yo-Sung Ho, Hiroshi Saruwatari, Ming-Ting Sun, Roberto Togneri, Changchun Bao, Martin Drahanský Local Management Committee: Akshya Swain (Chair), William Lee, Yuqian Lu, Ho Seok AHN

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
- Signal and Information Processing in Education
- Medical Signal Acquisition, Analysis and Processing
- Internet of Things Technology
- Data Analytics and Machine Learning
- Deep Learning: Algorithms, Implementations, and applications
- Human Biometrics and Security Systems
- Renewable Energy, Sustainability and the Environment
- AI and Smart Grids
- AI and Power Systems
- Wireless Power Transfer
- Autonomous Intelligent Self-Driving Cars
- Smart Materials and Sensors
- Signals and Control Systems



Summary of Links

- APSIPA ASC 2020: <http://www.apsipa2020.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 Magazine: http://www.apsipa.org/doc/magazine/apsipa_magazine2018.pdf
- APSIPA Photo Gallery: <http://www.apsipa.org/photo/photo.htm>

APSIPA Who's Who

President: Hitoshi Kiya, Tokyo Metropolitan University, Japan

President-Elect: Anthony Kuh, University of Hawaii at Manoa, USA

Past Presidents: Sadaoki Furui (2009-2012), C.C. Jay Kuo (2013-2014), Haizhou Li (2015-2016)

Immediate Past President: Wan-Chi Siu, The Hong Kong Polytechnic University, HK

VP - Conferences: Kosin Chamnongthai, King Mongkut's University of Technology Thonburi, Thailand

VP - Industrial Relations and Development: Seishi Takamura, NTT Corporation, Japan

VP - Institutional Relations and Education Program: Woon-Seng Gan, Nanyang Technological University, Singapore

VP - Member Relations and Development: Yoshinobu Kajikawa, Kansai University, Japan

VP - Publications: Kenneth Lam, The Hong Kong Polytechnic University, HK

VP - Technical Activities: Chung-Nan Lee, National Sun Yat-sen University, Taiwan

Members-at-Large:

Mingyi He, Northwestern Polytechnical University, China

Yo-Sung Ho, Gwangju Institute of Science and Technology, Korea

Tatsuya Kawahara, Kyoto University, Japan

Bonnie Law, The Hong Kong Polytechnic University, HK

Kai-Kuang Ma, Nanyang Technological University, Singapore

Susanto Rahardja, Northwestern Polytechnical University, China

Hiroshi Saruwatari, University of Tokyo, Japan

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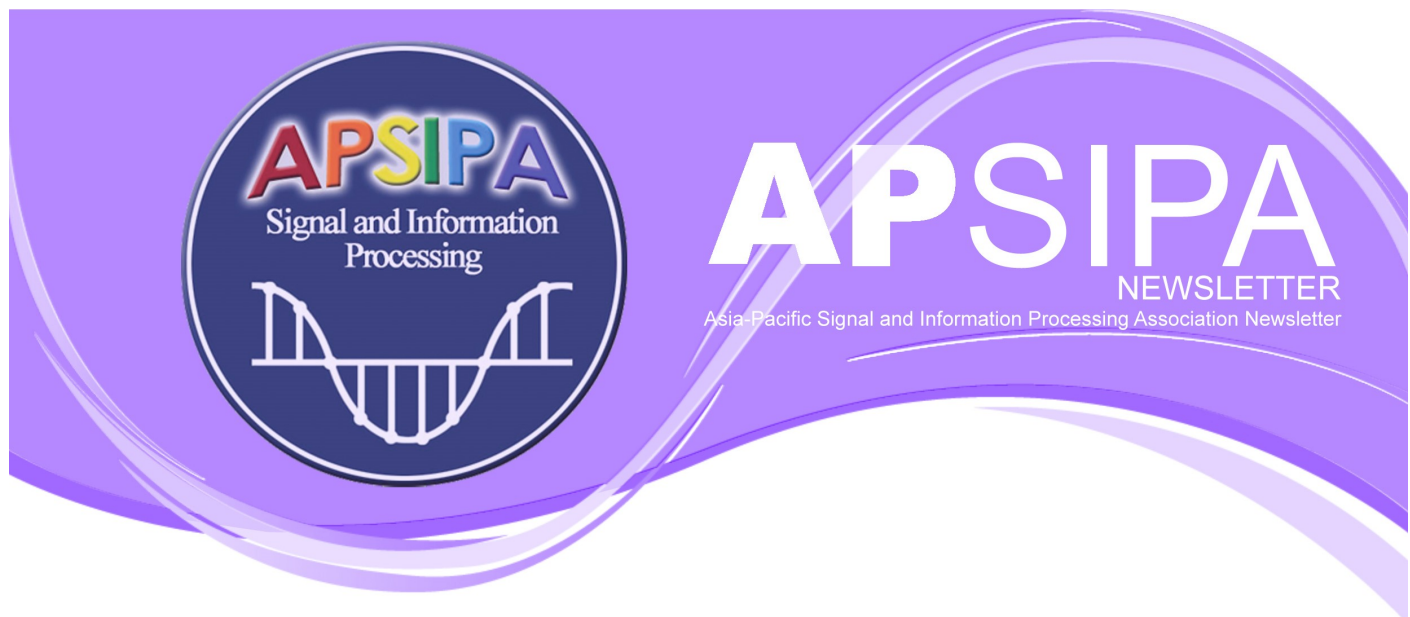
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