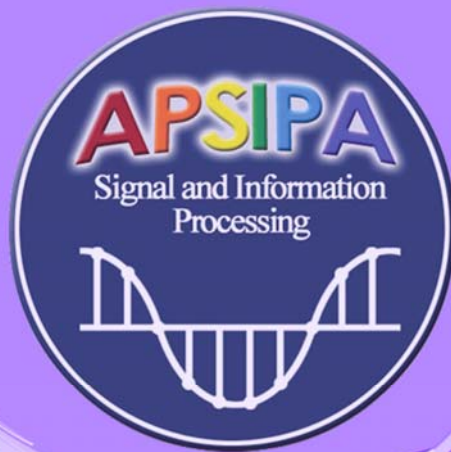


Issue 17  
Feb 2018



# APSIPA

NEWSLETTER

Asia-Pacific Signal and Information Processing Association Newsletter

## Greetings!



Happy New Year. Wishing you a wonderful year in 2018!

A number of activities have been held near the end of 2017. We have organized three elections including the elections of the Editor-in-Chief (EiC) of APSIPA Transactions on Signal and Information Processing, Vice-Presidents and the members-at-large of the APSIPA Board of Governors. 2017 APSIPA Annual Summit and Conference (APSIPA ASC 2017) has also been held successfully in Kuala Lumpur, Malaysia. During APSIPA ASC 2017, Sadaoki Furui Prize Paper award has been presented. Don't forget that APSIPA ASC 2018 will be held in Honolulu, Hawaii from 12 to 15 November 2018. More information is available at <http://www.apsipa2018.org/>.

APSIPA Transactions on Signal and Information Processing (ATSIP) serves as an international forum for signal and information processing researchers. It is an open-access e-only journal with its first issue appeared in December 2012. Professor Antonio Ortega was the first Editor-in-Chief and he has devoted great effort to promote the ATSIIP. In November 2017, ATSIIP started to be indexed in Engineering Village (EI). EI is comprised of several databases, including the Ei Compendex, in which ATSIIP is now indexed. Ei Compendex is an engineering literature database containing over 20 million records from 77 countries across engineering disciplines. To know more, please visit <https://www.engineeringvillage.com/home.url>.

Professor Antonio Ortega completed his term of service at the end of 2017. Professor Tatsuya Kawahara is now appointed as the Editor-in-Chief (2018-2019) of the APSIPA Transactions on Signal and Information Processing. Please consider submit your research works to ATSIIP at <http://journals.cambridge.org/sip>.

Contribution to Newsletter from members are always highly appreciated. All members are invited to send us your contributions to be published in APSIPA Newsletter. Don't forget to give us thoughts about the further development of APSIPA Newsletter. Enjoy reading this issue!

Bonnie Law  
APSIPA Newsletter EiC

### In this issue

Message from President	Page 2
APSIPA Sadaoki Furui Prize Paper Award	Page 4
Latest Articles from ATSIIP	Page 5
Snapshots of APSIPA ASC 2017	Page 7
List of 2018 Distinguished Lecturers	Page 12
2017 Fall APSIPA Industrial Distinguished Leaders	Page 12
Summary of links	Page 13
APSIPA Who's Who	Page 14

## Message from the President, APSIPA

Dear members,

This is the beginning of a new year. I hope you all have an excellent start of the year and move towards having great achievements. This is a very special year of APSIPA, since we are going to celebrate the 10th Anniversary of APSIPA.



APSIPA was formally established in 23 July 2009 as a non-profit making association, aiming at the promotion of research and education on signal processing, information technology and communications. Due to the contributions from a large number of volunteers, we established our international journal: APSIPA Transactions on Signal and Information Processing with Cambridge University Press in 2012, conducted the inaugural APSIPA-ASC (Annual Summit and Conference) in 2009 in Sapporo (whereas we will have the 10th APSIPA-ASC to be held in Hawaii in 2018), and organized various other activities such as Distinguished Lecturer Program, Summer Workshop, Sadaoki Furui Prize Paper Award, collaborations with IEEE, etc.

We are going to have various activities to celebrate the 10th Anniversary, which include publishing special issues of APSIPA Transactions and a Special Magazine for the Celebration, organizing Summer Workshops, holding celebration activities in APSIPA-ASC 2018 in Hawaii, etc.

On behalf of the Association, I would like to convey our appreciation for the outgoing members of the Board of Governors (BoG). These include the retiring VPs and EiC: **Shan Liu** (VP–Industrial Relations and Development) and **Tatsuya Kawahara** (VP–Publications), **Antonio Ortega** (Editor-in-Chief, APSIPA Transactions on Signal and Information Processing (APSIPA TSIP), and the retiring Members-at-Large: **Supavadee Armavith**, **Wen Gao**, **K.J. Ray Liu** and **Ming-Ting Sun**.

It is also my great honor to welcome the following elected members to join the BoG: **Thomas Fang Zheng** of Tsinghua University as VP-Conferences, **Guan-Ming Su** of Dolby Labs as VP–Industrial Relations and Development, **Yoshinobu Kajikawa** of Kansai University as VP–Member Relations and Development, **Kenneth Lam** of The Hong Kong Polytechnic University as VP–Publications and **Anthony Kuh** of University of Hawaii at Manoa as VP-Technical Activities, **Tatsuya Kawahara** of Kyoto University as Editor-in-Chief of APSIPA TSIP, and **Yo-Sung Ho** of Gwangju Institute of Science and Technology, **Tatsuya Kawahara** of Kyoto University, **Bonnie Ngai-Fong Law** of the Hong Kong Polytechnic University, **Kai-Kuang Ma** of the Nanyang Technological University and **Susanto Rahardja** of Northwestern Polytechnical University as Members-at-Large.

I would also like to welcome the following members who have been elected as Distinguish Lectures of APSIPA (2018-2019): **Hemant A Patil**, Dhirubhai Ambani Institute of Information and Communication Technology; **Hiroshi Saruwatari**, The University of Tokyo; **Junosng Yuan**, Nanyang Technological University; **Dong Wang**, Tsinghua University; **Jie Chen**, Northwestern Polytechnical University; **Chuang Shi**, University of Electronic Science and Technology of China, **Xiangui Kang**, Sun Yat-sen University; **Jiaching Wang**, National Central University and **Xie Lei**, Northwestern Polytechnical University. They will take active role in various technical activities of APSIPA and conduct Distinguish Lectures on behalf of APSIPA.

Once again we would like to invite you to have the continuing support of APSIPA. This is a professional family waiting for your enjoyment of our services, and making cross-fertilization of knowledge, collaborations of R&D research works and mutual supports.

Wan-Chi Siu

President (2017-2018), APSIPA

## 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 2017. We are pleased to share with you the following election results.

### Vice President - Conferences

Professor Thomas Fang Zheng  
*Tsinghua University, China*



### Vice President - Industrial Relations and Development

Dr Guan-Ming Su  
*Dolby Labs, Sunnyvale, CA, USA*



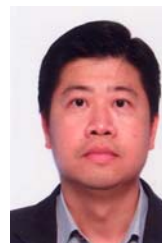
### Vice President - Member Relations and Development

Professor Yoshinobu Kajikawa  
*Kansai University, Japan*  
<http://joho.densi.kansai-u.ac.jp/~kaji/index-e.html>



### Vice President - Publications

Professor Kenneth Lam  
*The Hong Kong Polytechnic University, Hong Kong*  
<http://www.eie.polyu.edu.hk/~enkmlam/>



### Vice President - Technical Activities

Professor Anthony Kuh  
*University of Hawaii at Manoa, USA*  
<http://www-ee.eng.hawaii.edu/~kuh/info.html>



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**Members-at-Large:**

Professor Yo-Sung Ho  
Gwangju Institute of Science and Technol-  
ogy, Korea



Professor Tatsuya Kawahara  
Kyoto University, Japan



Dr Bonnie N.F. Law  
The Hong Kong Polytechnic University, HK



Professor Kai-Kuang Ma  
Nanyang Technological University, Sin-  
gapore



Professor Susanto Rahardja  
Northwestern Polytechnical University,  
China



**Congratulations!**

## **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 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 tell that the 2017 APSIPA Sadaoki Furui Prize Paper Award was given to:



**Yoshinobu Kajikawa, Woon-Seng Gan and Sen M. Kuo**

**“Recent advances on active noise control: open issues and innovative applications”, APSIPA Transactions on Signal and Information Processing, Volume 1, 2012, e3**

<https://doi.org/10.1017/ATSIP.2012.4>



The award (including the certificate and the cash prize of US \$1000) has been presented in the opening ceremony of APSIPA ASC 2017.

## **Congratulations!**



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

- **The origin of digital information devices: the Silicon Audio and its family**
  - Akihiko Sugiyama, Masahiro Iwadare
  - DOI: <https://doi.org/10.1017/ATSIP.2017.16>
  - Published online: 15 January 2018
- **The internet needs a competitive, royalty-free video codec**
  - James Bankoski, Matthew Frost, Adrian Grange
  - DOI: <https://doi.org/10.1017/ATSIP.2017.14>
  - Published online: 28 November 2017
- **Learning in the 21st century cyber-physical age**
  - Chandrakant Patel, Yang Lei, Lei Liu, Rares Vernica, Jian Fan, Brad Short, Jerry Liu, Steven J. Simske
  - DOI: <https://doi.org/10.1017/ATSIP.2017.10>
  - Published online: 02 October 2017

- **Advances in deep learning approaches for image tagging**
  - Jianlong Fu, Yong Rui
  - DOI: <https://doi.org/10.1017/ATSIP.2017.12>
  - Published online: 04 October 2017
- **Seven fundamental rethinking for next-generation wireless communications**
  - Chih-Lin I
  - DOI: <https://doi.org/10.1017/ATSIP.2017.11>
  - Published online: 20 September 2017

### **Most Read Articles from ATSIP**

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

- **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
- **Use cases and challenges in telecom big data analytics**
  - Chung-Min Chen
  - DOI: <https://doi.org/10.1017/ATSIP.2016.20>
  - Published online: 12 December 2016, e19

### **Most Cited Articles from ATSIP**

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

- **An overview on video forensics**
  - Simone Milani, Marco Fontani, Paolo Bestagini, Mauro Barni, Alessandro Piva, Marco Tagliasacchi, Stefano Tubaro
  - DOI: <https://doi.org/10.1017/ATSIP.2012.2>
  - Published online: 28 August 2012, e2
- **Recent advances on active noise control: open issues and innovative applications**
  - Yoshinobu Kajikawa, Woon-Seng Gan, Sen M. Kuo
  - DOI: <https://doi.org/10.1017/ATSIP.2012.4>
  - Published online: 28 August 2012, e3

## APSIPA ASC 2017

### Professor Woon-Seng Gan

Nanyang Technological University, Singapore

The 2017 APSIPA Annual Summit and Conference (APSIPA ASC 2017) was held in Kuala Lumpur, Malaysia, during 12-15 December, 2017. This is the ninth annual conference organized by APSIPA, and 334 papers were accepted for presentation from 27 countries. The conference attracted papers on all aspects of signal and information including signal processing, recognition, classification, communications, networking, computing, system design, security, implementation, and technology with applications to scientific, engineering and social areas.

To introduce state-of-the-art techniques in signal and information processing, seven tutorials, six invited overview talks, four keynote speeches, an education forum and an industry forum were organized in APSIPA ASC 2017. Keynote slides have been uploaded to the website ([www.apsipa2017.org](http://www.apsipa2017.org)) for members to download. Besides, photos as well as the list of paper awards can also be found in the website.

The APSIPA ASC 2018 will be held in Honolulu, Hawaii from 12 to 15 November 2018. You can find more information at <http://apsipa2018.org/>. See you in APSIPA ASC 2018!

## Snapshots of APSIPA ASC 2017





















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## Distinguished Lecturers for 2018-2019

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 nine newly selected Distinguished Lecturers.

- **Hemant A Patil**, *Dhirubhai Ambani Institute of Information and Communication Technology, India*
- **Hiroshi Saruwatari**, *The University of Tokyo, Japan*
- **Junosng Yuan**, *Nanyang Technological University, Singapore*
- **Dong Wang**, *Tsinghua University, China*
- **Jie Chen**, *Northwestern Polytechnical University, China*
- **Chuang Shi**, *University of Electronic Science and Technology of China*
- **Xiangui Kang**, *Sun Yat-sen University, China*
- **Jiaching Wang**, *National Central University, Taiwan*
- **Xie Lei**, *Northwestern Polytechnical University, China*

## Year 2017 Fall APSIPA Industrial Distinguished Leaders

The APSIPA Industrial Distinguished Leader is a distinction reserved for selected APSIPA members whose extraordinary accomplishments in any of the fields related to APSIPA scope are deemed fitting of this prestigious recognition. The Distinguished Leader nomination and election process conducts twice a year. We are happy to share with you the following list of the Year 2017 Fall APSIPA Industrial Distinguished Leaders.

- **Naonori Ueda**, *NTT Fellow, NTT*
- **James Bankoski**, *Director, Google*
- **Amir Said**, *Principal Engineer, Qualcomm*
- **Chung-Sheng Li**, *Global Research Managing Director, Accenture Operations*
- **Akihiko Sugiyama**, *Research Fellow, NEC*
- **Kar-Han Tan**, *VP, Novumind*

## Summary of Links

- APSIPA ASC 2018: <http://www.apsipa2018.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 Who's Who

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

**President-Elect:** Hitoshi Kiya, Tokyo Metropolitan University, Japan

**Past Presidents:** Sadaoki Furui (2009-2012), C.C. Jay Kuo (2013-2014)

**Immediate Past President:** Haizhou Li, National University of Singapore, Singapore

**VP - Conferences:** Thomas Fang Zheng, Tsinghua University, China

**VP - Industrial Relations and Development:** Guan-Ming Su, Dolby Labs, Sunnyvale, CA, USA

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

**Members-at-Large:**

**Kosin Chamnongthai**, King Mongkut's University of Technology Thonburi, Thailand

**Homer Chen**, National Taiwan University, Taiwan

**Nam Ik Cho**, Seoul National University, Korea

**Hsueh-Ming Hang**, National Chiao-Tung University, Taiwan

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

**Tatsuya Kawahara**, Kyoto University, Japan

**Bonnie Law**, The Hong Kong Polytechnic University, HK

**Chung-Nan Lee**, National Sun Yat-sen University, Taiwan

**Kai-Kuang Ma**, Nanyang Technological University, Singapore

**Susanto Rahardja**, Northwestern Polytechnical University, China

**Kazyua Takeda**, Nagoya University, Japan

**Toshihisa Tanaka**, Tokyo University of Agriculture and Technology, Japan

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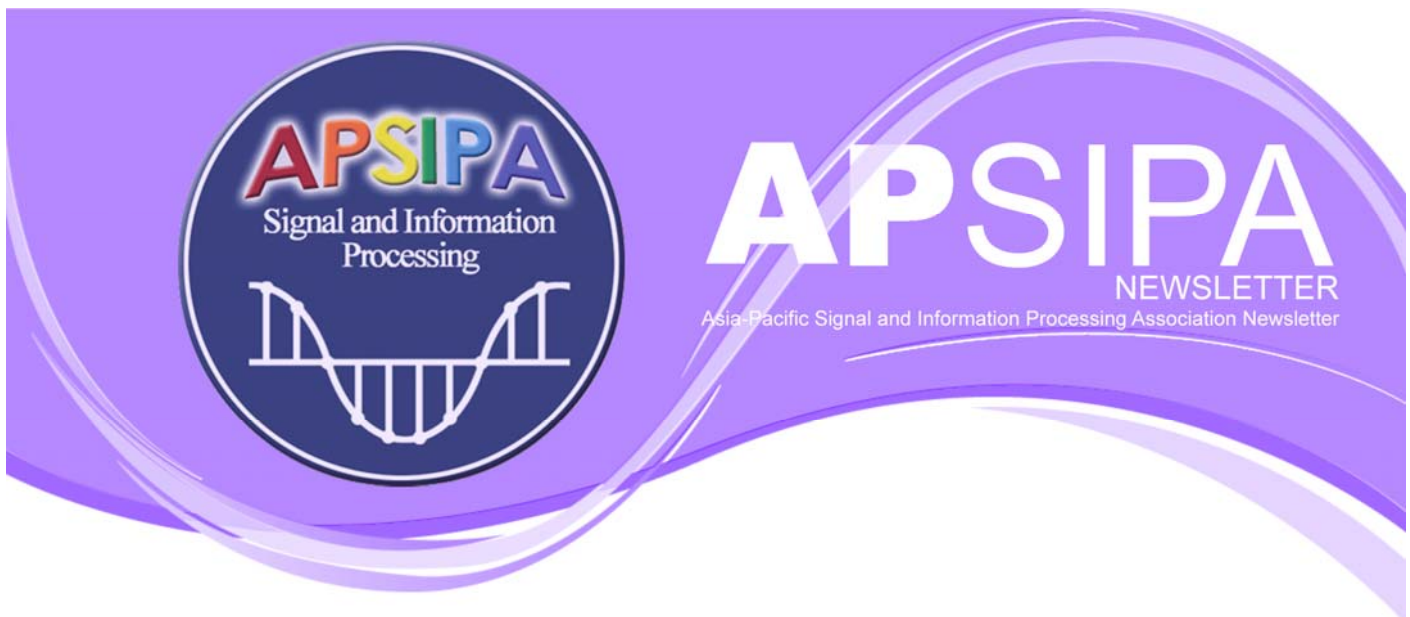
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Secretary: Ngai-Fong Law, Bonnie,  
email: [ennflaw@polyu.edu.hk](mailto:ennflaw@polyu.edu.hk)

Treasurer: Yuk-Hee Chan, Chris,  
email: [enyhchan@polyu.edu.hk](mailto:enyhchan@polyu.edu.hk)



• **APSIPA Newsletter Editorial Board Members**

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

**Eliathamby Ambikairajah**, University of New South Wales, Australia

**Yoshinobu Kajikawa**, Kansai University, Japan

**Kenneth Lam**, The Hong Kong Polytechnic University, Hong Kong

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

**Thomas Fang Zheng**, Tsinghua University, China

**Are you an APSIPA member?**

**If not, then register online at**

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