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APSIPA

NEWSLETTER

Asia-Pacific Signal and Information Processing Association Newsletter

Greetings!

Welcome to the November issue of the APSIPA Newsletter.

Through newsletters, we hope to let members know more about the APSIPA Technical Committees (TCs). In the past two issues, introduction of SIPTM, SLA, IVM and SPS TCs, In this issue, we have invited the technical committee chair of Biomedical Signal Processing and Systems (BioSiPS), Prof. Kazushi Ikeda (Nara Institute of Science and Technology, Japan), to be our guest editor.

APSIPA ASC 2019 has been successfully held in Lanzhou. The next conference, APSIPA ASC 2020, will be held on December 7-10, 2020 in Auckland, New Zealand. Please mark your diary. More information will be announced at <http://www.apsipa2020.org/>.

Enjoy reading this issue!

Sanghoon Lee, Zhiyi Yu and Bonnie Law
Guest editors and EiC

Kazushi Ikeda and Bonnie Law
Guest editor and EiC of APSIPA



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Biomedical Signal Processing and Systems (BioSiPS) TC

Prof. Kazushi Ikeda

Nara Institute of Science and Technology (NAIST), Japan

<http://mi.naist.jp>



Message from the TC Chair

Biomedical Signal Processing and Systems (BioSiPS) is one of the technical committees of APSIPA. It is established to promote advancement and exchange of the research fields of biomedical signal processing and systems in the Asia-Pacific region. The fields of interest include Brain signal processing, BCI and BMI, Bio- and neuro-imaging, Electrophysiological signal processing, wearable and implantable electronics, and signal processing in medical/cognitive/behavioral sciences. You may find more information about SPS TC at <http://www.apsipa.org/TC/BioSiPS.html>.

One representative activity of the TC is APSIPA BioSiPS Workshop. The first workshop was held in Bangkok, Thailand, in 2013, the second in Rajshahi, Bangladesh, in 2014, the third in Shanghai, China in 2015, the fourth in Tokyo, Japan in 2016, and the fifth in Gwangju, South Korea, in 2017. This year, the sixth workshop was held on the beach in Pico de Loro, the Philippines with organizers:

General chair: Kazushi Ikeda (Nara Institute of Science and Technology)

Program co-chairs: Takatomi Kubo (Nara Institute of Science and Technology) and Toshihisa Tanaka (Tokyo University of Agriculture and Technology)

Organizing chair: Jaymar Soriano (University of the Philippines Diliman)

The workshop got 26 attendees including 13 students.

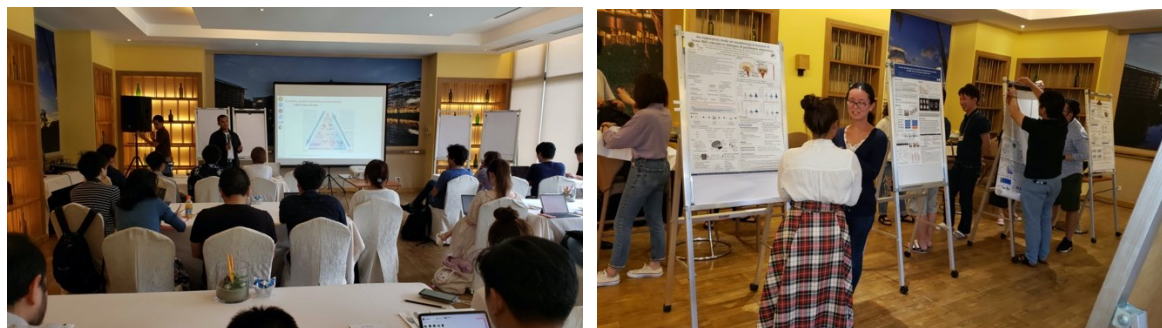


The first day was devoted to lab tours to University of the Philippines Diliman (UPD) and Ateneo de Manila University (AdMU) and Friend Labs, where nine laboratories (six from Japan and three from the Philippines) introduced their research activities and willingness to collaborate.



In the second and third days, we had three invited talks, seven oral presentations and fifteen poster presentations. The invited talks were:

- Prof. Johnrob Bantang (National Institute of Physics, UPD): Dynamical source of power law burst distributions and response defects in connected neurons.
- Prof. Ma. Mercedes T. Rodrigo (Ateneo Laboratory for the Learning Sciences, AdMU): Augmented reality games for museum learning.
- Prof. Toshihisa Tanaka (Tokyo University of Agriculture and Technology): Music familiarity affects brain response.



The workshop was concluded by Banquet. Everybody enjoyed eating local foods such as mangosteens and singing with Karaoke.



Note the workshop was financially supported in part by APSIPA Activity Promotion Program. I appreciate the support.

Finally I would like to express my gratitude to Dr. Jaymar Soriano, the organizing chair, for the local arrangement of the workshop.

You may find more information at

<https://sites.google.com/view/milab/home/biosips-workshop-2019>

Members of BioSiPS Technical Committee

Sung-Phil Kim - Ulsan National Institute of Science and Technology (S. Korea)

Bonnie N.F. Law - The Hong Kong Polytechnic University (Hong Kong)

Gwo Giun Lee - National Cheng Kung University (Taiwan)

Caroline Li - University of Kent (UK)

David Looney - Imperial College London (UK)

Shaikh A. Fattah - BUET (Bangladesh)

Beth Jelfs – RMIT University (Australia)

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

Jaymar Soriano - University of the Philippines Diliman (Philippines)

You may find more information about BioSiPS TC at <http://www.apsipa.org/TC/BioSiPS.html>.

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

- **A signal adaptive diffusion filter for video coding: improved parameter selection**
 - Jennifer Rasch, Jonathan Pfaff, Michael Schafer, Anastasia Henkel, Heiko Schwarz, Detlev Marpe, Thomas Wiegand
 - DOI: <https://doi.org/10.1017/ATSIP.2019.22>
 - Published online: 22 November 2019, e29
- **A comprehensive video codec comparison**
 - Thorsten Laude, Yerima Gunawan Adhisantoso, Jan Voges, Macro Munderloh, Jörn Ostermann
 - DOI: <https://doi.org/10.1017/ATSIP.2019.23>
 - Published online: 20 November 2019, e30
- **Extended multiple feature-based classifications for adaptive loop filtering**
 - Johannes Erfurt, Wang-Q Lim, Heiko Schwarz, Detlev Marpe, Thomas Wiegand
 - DOI: <https://doi.org/10.1017/ATSIP.2019.19>
 - Published online: 14 November 2019, e28
- **A comprehensive study of the rate-distortion performance in MPEG point cloud compression**
 - Evangelos Alexiou, Irene Viola, Thomas 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
- **Large-scale Landsat image classification based on deep learning methods**
 - Xuemei Zhao, Lianru Gao, Zhengchao Chen, Bing Zhang, Wenzhi Liao
 - DOI: <https://doi.org/10.1017/ATSIP.2019.18>
 - Published online: 6 November 2019, e26
- **Reliable multicast using remote direct memory access (RDMA) over a passive optical cross-connect fabric enhanced with wavelength division multiplexing (WDM)**
 - Kin-Wai Leong, Zhilong Li, Yunqu Leon Liu
 - DOI: <https://doi.org/10.1017/ATSIP.2019.17>
 - Published online: 23 October 2019, e25
- **Residual sign prediction in transform domain for next-generation video coding**
 - Alexey Filippov, Vasily Ruffitskiy, Alexander Karabutov, Jianle Chen
 - DOI: <https://doi.org/10.1017/ATSIP.2019.6>
 - Published online: 11 October 2019, e24

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
- **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>

- **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 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 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>

Summary of Links

- APSIPA ASC 2019: <http://www.apsipa2019.org>
- APSIPA Winter School 2019: <http://www.apsipa2019.org/WinterSchool.html>
- 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

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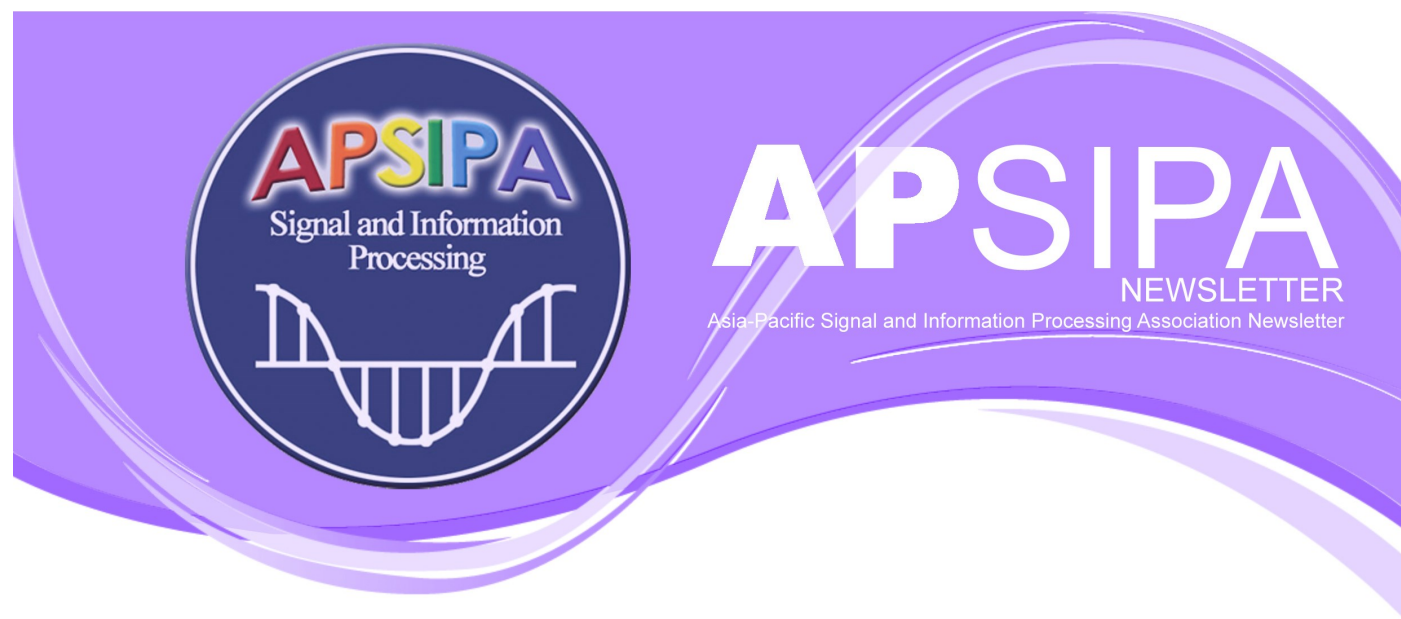
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