Issue 43
Nov. 2024

APSIPA NEWSLETTER
Asia-Pacific Signal and Information Processing Association Newsletter

Message from Editor-in-Chief

Greetings!

Welcome to the November issue of the APSIPA newsletter!

One of the most important upcoming events is the APSIPA ASC 2024, which will be held in Macau from Dec. 3- 6. The organizing committee is working very hard to finalize the program and will release it soon in the website http://www.apsipa2024.org/. A tentative program is also provided in this newsletter, so that we can have a quick look at this wonderful conference. You can also find some useful information regarding the hotel and transportation to the conference venue. We look forward to seeing you all in Macau!

Another exciting news that I would like to share with you is: The 8th APSIPA Sadaoki Furui Prize Paper Award was awarded to Fenxiao (Jessica) Chen, Yun-Cheng Wang, Bin Wang and C.-C. Jay Kuo (2020), for their works "Graph representation learning: a survey" published in APSIPA Transactions on Signal and Information Processing. Congratulations to all the authors! Jessica will be giving a presentation after the opening ceremony of APSIPA ASC 24 on Dec. 4.

In this issue

There are also many interesting activities in our local chapters as well, jointly with IEEE Signal Processing Society , IEEE Consumer Technology Society, IEEE Industrial Electronics Society, IEEE Systems, Man, and Cybernetics Society, and Chinese Society of Image and Graphics, etc. Please refer to this newsletter for the details on these activities and some nice photos.

Last but not the least, I shall remind you that APSIPA ASC 25 will be held in Singapore from Oct. 22-24. The submission deadline is June 7, 2025. A Call-for-Paper is included in this newsletter for your reference. Our APSIPA members are highly encouraged to submit papers to support APSIPA ASC 25.

Please enjoy reading this issue!

Jiantao Zhou

Message from the APSIPA President

I hope you had a good summer, and I also hope many of you get your paper accepted for presentation in APSIPA ASC 2024 in December. In the last Board of Governors (BoG) meeting, we agreed to set up a travel grant scheme for participants from developing countries in this region to promote inclusivity and foster collaboration within the APSIPA community. It is implemented for this ASC. To be eligible for the travel grant, the following conditions are required:

- The applicant must be a resident of an ASEAN country (excluding Singapore), Bangladesh, or India.

- The applicant must have paper(s) accepted for presentation at APSIPA ASC. (one applicant is allowed for one paper)

- The applicant must attend the APSIPA ASC in person to present the paper.

The selected applicants will be provided with USD 400, and we have secured a budget to cover 25 grants, which is USD 10,000 in total. The travel grant was advertised on the ASC 2024 website, and we received 27 applications, among which 21 satisfied the above condition. So, we awarded the grant to all of them. I greatly appreciate VP- Conferences, Bonnie N.F. Law, for her prompt work in setting up the portal and handling applications. The travel grant scheme will continue in the following years, and I hope it will boost attendance from developing countries.

Another announcement is to split Speech, Language, and Audio (SLA) TC to form new TCs:

- Speech and Language Processing (SLP) TC

- Audio and Acoustic (AA) TC

The SLA TC has been the most active, attracting the largest number of papers, so review management is the most challenging. The new TCs will form during ASC 2024 and officially start in 2025.

Finally, we have also conducted voting for the new logo of APSIPA. I will announce the result at the opening ceremony of ASC 2024. See you in Macao on December 3-6.

Best Regards
Tatsuya Kawahara
APSIPA President (2023-2024)
Email: kawahara@i.kyoto-u.ac.jp

Message from APSIPA VP for Conference

Greetings!

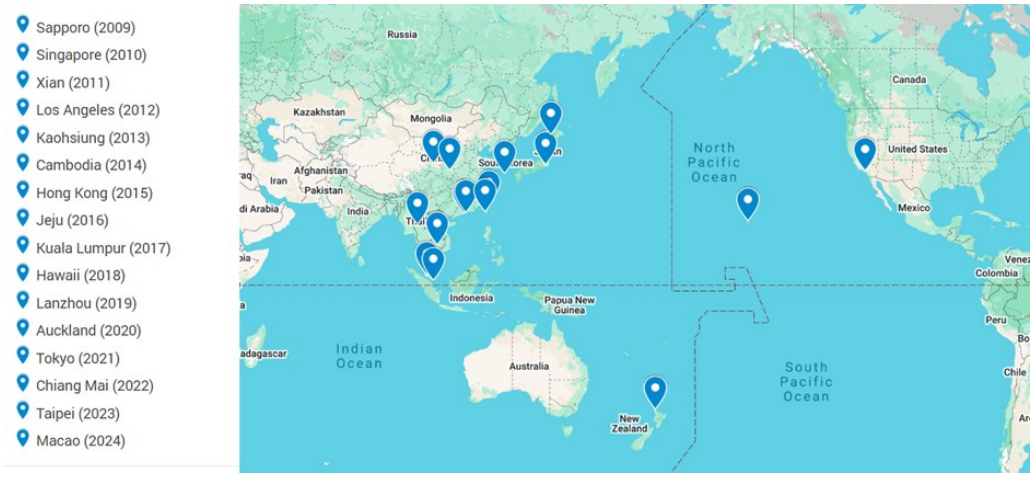
It is truly an honor for me to serve as the vice president of conferences for APSIPA in the term of 2024-2025. This year marks the 16th annual conference organized by APSIPA. I still remembered my initial engagement with APSIPA during the inaugural APSIPA ASC 2009 in Sapporo, Japan, where we had approximately 250 attendees.

Since the first conference in 2009, APSIPA ASC has been held in various countries and regions across Asia, ranging from Cambodia, China, Japan, Korea, Malaysia, Singapore, and Thailand to the United States and New Zealand. Over the years, APSIPA ASC has experienced remarkable growth, with attendance now exceeding 400 participants. The number of paper submissions has also increased from about 250 to over 400 in recent years. It is so gratifying to see the increasing interest and engagement within our research community. The expansion of submitted papers from sixteen to as many as twenty-seven countries has brought together researchers from the Asia-Pacific regions, creating a valuable platform for the exchange of research insights and networking opportunities. This annual gathering is a significant opportunity for researchers in this area to share their work.

As we continue our journey with APSIPA, I have had the pleasure of establishing new connections with colleagues from various regions. Looking ahead, we intend to extend our outreach to more countries in the Asia Pacific area, fostering enhanced collaboration in the signal and information processing research communities. May I extend an invitation to all of you to consider hosting APSIPA ASC 2027 in your country or region and to submit your proposals to me. We eagerly anticipate further discussions and look forward to meeting you at APSIPA ASC 2024 in Macau this December.

Warm regards

Bonnie Law



WELCOME TO APSIPA ASC 2024!

CONFERENCE VENUE

GALAXY INTERNATIONAL CONVENTION CENTER

Address: Galaxy Macau Cotai Macau, Macau
Wesite: https://www.galaxymacau.com/mice/gicc/meetings-conferences/

UM GUEST HOUSE N1

Address: N-1 Building, University of Macau, Macau
Website: https://srs.sao.um.edu.mo/um-guest-house/

HOTEL INFO

Andaz Macau

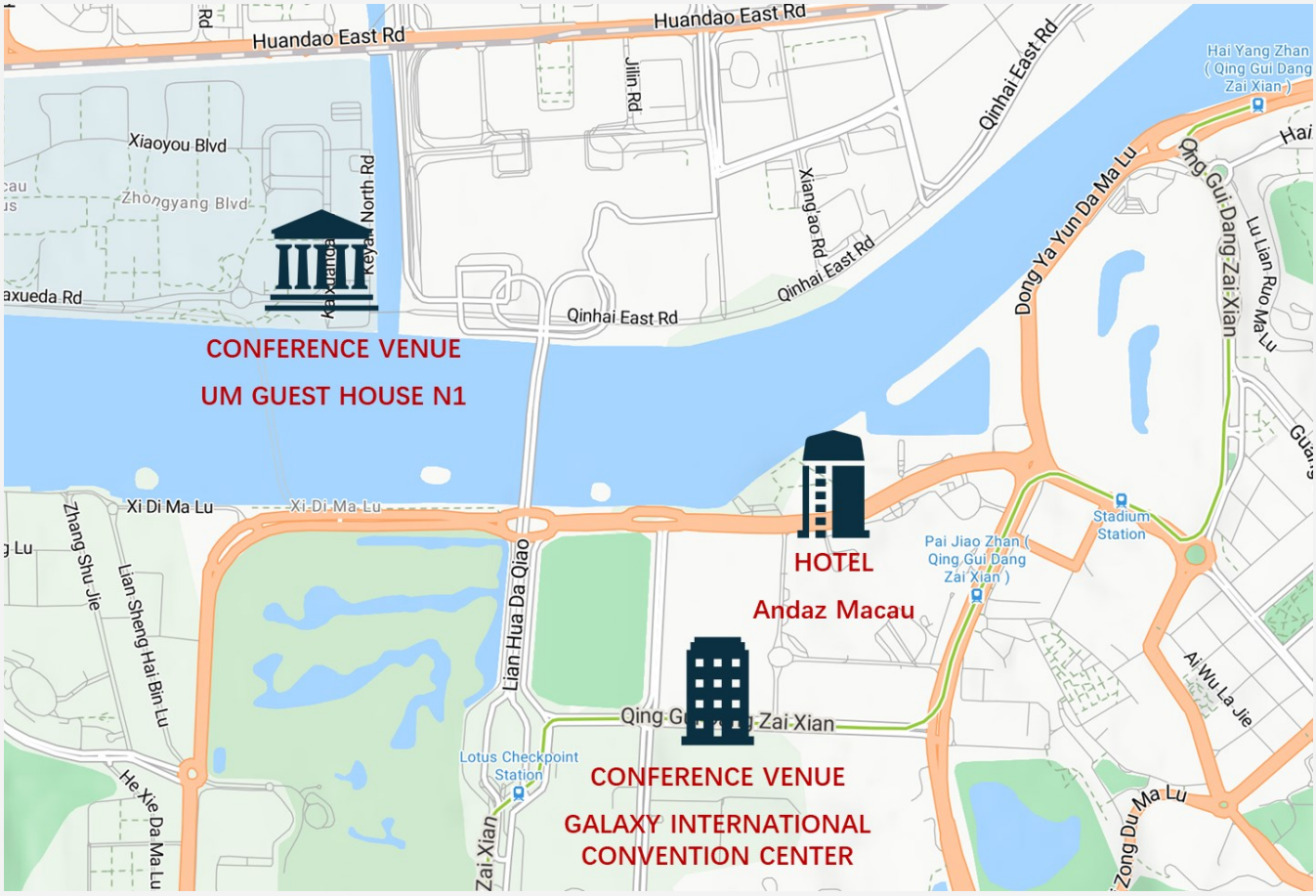
5-Star Hotel

Tel: +853 2888 0888

Website: https://apsipa2024.scimeeting.cn/en/reg/dev-reg/21686?class_id=54446

TRANSPORTATION

Please visit our website for more details: http://www.apsipa2024.org/traffic.html



Schedule 3-Dec

3-Dec		
Time/Location	**Room 1**	**Room 2**
09:30-11:30	**[T01]** EEG Signal Processing and Machine Learning	**[T02]** From Statistical to Causal Inferences for Time-Series and Tabular Data
11:30-13:00	Lunch	
13:00-15:00	**[T03]** Human-Centric RF Sensing: Pose Estimation, ECG Monitoring and Self-Supervised Learning	**Winter School** **Part 1:** Overview of Neural Network AI **Part 2:** Hopfield Neural Network Fundamental for Machine Learning
15:00-15:30	Coffee Break	
15:30-17:30	**[T04]** Emerging Topics for Speech Synthesis: Versatility and Efficiency	**Winter School** **Part 3:** Deep Learning for Image forensics **Part 4:** Generative Modeling and Learning for Conversational AI
17:30-20:00	Welcome Reception	

Schedule 4-Dec

4-Dec										
Time/Location	**Room 1**	**Room 2**	**Room 3**	**Room 4**	**Room 5**	**Room 6**	**Room 7**	**Room 8**	**Room 9**	**Room 10**
09:00-09:40	Opening Ceremony & Invited Talk for the APSIPA Sadaoki Furui Prize Paper Award									
09:40-10:40	Keynote Speech I									
10:40 - 11:00	Coffee Break									
11:00-12:20 (4 Speakers) (Total: 36 papers)	Audio Processing (50, 84, 111, 115)	Biomedical Signal Processing and Systems (77, 107, 130, 136)	Machine Learning and Data Analytics (17, 57, 62, 125)	Machine Learning and Data Analytics (171, 209, 211, 56)	Machine Learning and Data Analytics (240, 323, 385, 386)	Image, Video, and Multimedia (44, 53, 58, 66)	Signal and Information Processing & Systems (51, 74, 86, 88)	Speech and Language Processing (26, 29, 37, 54)	Speech and Language Processing (55, 78, 79)	Poster (25, 32, 39, 229, 59, 63, 68, 65, 75, 83, 189, 195)
12:20-14:00	[TC1] TC Meeting (SPS)	[T02] TC Meeting (MSF)	[TC3] TC Meeting (BioSiPS)	[TC4] TC Meeting (SLP)	[TC5] TC Meeting (AA)	[TC6] TC Meeting (WCN)	[TC7] TC Meeting (IVM)	Lunch		
14:00-16:00 (6 Speakers) (Total: 42 papers)	Audio Processing (116, 145, 153, 203, 212, 218)	Biomedical Signal Processing and Systems (140, 161, 221, 255, 302, 339)	Best Paper Competition	Industrial Forum	Multimedia Security and Forensics (34, 48, 49, 172, 186, 315)	Image, Video, and Multimedia (90, 122, 131, 138, 495, 192)	Signal and Information Processing & Systems (100, 109, 124, 133, 143, 159)	Speech and Language Processing (80, 82, 85, 97, 110, 120)	Speech and Language Processing (126, 146, 147, 162, 163, 181)	Poster (89, 98, 99, 102, 108, 112, 113, 117, 204, 137, 144, 206, 150, 157)
16:00-16:20	Coffee Break									
16:20-18:00 (5 Speakers) (Total: 35 papers)	Audio Processing (230, 235, 243, 246, 277)	Biomedical Signal Processing and Systems (370, 398, 466, 431, 456)	Best Paper Competition	APSIPA / IEEE SPS Journal Session	Multimedia Security and Forensics (359, 360, 417, 434, 505)	Image, Video, and Multimedia (193, 219, 238, 247)	Signal and Information Processing & Systems (170, 173, 149, 217, 225)	Speech and Language Processing (184, 190, 200, 118, 237)	Speech and Language Processing (239, 244, 249, 274, 301)	Poster (160, 164, 167, 177, 188, 194, 214, 216, 222)
18:00-20:00	BoG Meeting									

Schedule 5-Dec

5-Dec										
Time/Location	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9	Room 10
09:00-10:00	Keynote Speech II									
10:00-10:20	Coffee Break									
10:20-12:00 (5 Speakers) (Total: 40 papers)	Audio Processing (284, 288, 290, 296, 309)	Overview Session	Emerging Technologies and Applications Of Image Processing And Computer Vision (45, 46, 47, 95, 166)	Advanced Topics on Sound Event and Scene Analysis (52, 158, 380, 406, 424)	Recent Advances in Multimedia Enrichment and Security (123, 198, 202, 207, 208)	Image, Video, and Multimedia (252, 253, 269, 271, 295)	Signal and Information Processing & Systems (226, 231, 260, 273, 307)	Speech and Language Processing (320, 326, 342, 350, 361)	Advanced Signal Processing for Information Collection and Data Analysis in Wireless Environmental Sensing (105, 142, 199, 279, 303)	Poster (228, 248, 245, 262, 265, 266, 272, 283, 286)
12:00-14:00	APSIPA Women Forum	Lunch		TC Chair Meeting	Lunch					
14:00-15:20 (4 Speakers) (Total: 36 papers)	Audio Processing (331, 333, 347, 362)	Audio Processing (363, 378, 383, 400)	High Performance Image and Video Processing and Applications (92, 215, 258, 280)	New Frontiers in Biometric Authentication (220, 453, 317, 409)	Recent Advances in Multimedia Enrichment and Security (210, 227, 233, 251)	Image, Video, and Multimedia (297, 300, 305, 330)	Signal and Information Processing & Systems (318, 328, 340, 376)	Speech and Language Processing (388, 402, 404, 407)	Advancements in Biosignal Decoding and Neuromodulation for Human Function Enhancement (72, 178, 256, 259)	Poster (287, 291, 298, 308, 314, 319, 321, 324, 329, 334)
15:20-15:40	Coffee Break									
15:40-16:40	Keynote Speech III									
16:40-18:00 (4 Speakers) (Total: 34 papers)	Audio Processing (408, 412, 419, 425)	Audio Processing (446, 478, 470, 487)	High Performance Image and Video Processing and Applications (345, 349, 368, 440)	Wireless Communications and Networking (27, 344, 381)	Recent Advances in Multimedia Enrichment and Security (257, 263, 267, 336)	Image, Video, and Multimedia (337, 337, 341, 364)	Signal and Information Processing & Systems (382, 397, 414, 442)	Speech and Language Processing (415, 433, 435, 438)	Advancements in Biosignal Decoding and Neuromodulation for Human Function Enhancement (270, 365, 373)	Poster (352, 353, 366, 396, 389, 391, 393, 401, 338, 413)
18:00-21:00	Banquet									

Schedule 6-Dec

6-Dec										
Time/Location	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9	Room 10
9:00-10:20 (4 Speakers) (Total: 32 papers)	Signal Processing for Drone Audition & Recent Advances in Intelligent Signal Processing (128, 180, 278, 292, 294, 387)	Converging AI and Computer Vision: Innovations and Potential (104, 175, 205, 254)	AI-Driven Innovations in Cybersecurity Advanced Applications in Signal Processing, Multimedia Security, and Privacy (106, 241, 261, 327)	Embedded and Real-Time Systems for AI and Signal Processing Applications (71, 165, 304, 311)	Selected Papers from APSIPA Workshop on Advanced Signal and Information Processing (41, 42, 43, 94)	Image, Video, and Multimedia (372, 410, 428, 451)	Acoustic Scene Analysis and Signal Enhancement Based on Advanced Signal Processing and Machine Learning (127, 155, 168, 355)	Speech and Language Processing (441, 444, 449, 452)	Overview Session	Poster (427, 432, 436, 437, 439, 443, 445, 450, 223)
10:20-10:40	Coffee Break									
10:40-12:00 (4 Speakers) (Total: 36 papers)	Signal Processing for Drone Audition & Recent Advances in Intelligent Signal Processing (411, 430, 457)	Converging AI and Computer Vision: Innovations and Potential (282, 354, 357, 371)	Multimedia Processing Systems in the AI Era (291, 293, 374, 405)	Embedded and Real-Time Systems for AI and Signal Processing Applications (312, 343, 375, 394)	Selected Papers from APSIPA Workshop on Advanced Signal and Information Processing (121, 132, 134, 135)	Image, Video, and Multimedia (455, 462, 496)	Advanced Topics for Automatic Speakers Recognition (67, 332, 467)	Speech and Language Processing (460, 468, 483, 485)	Few-shot Vision, Language, and Multimedia Processing under LLMs (176, 448, 465, 492)	Poster (458, 461, 429, 469, 471, 473, 476, 464, 481, 489, 490, 493)
12:10-13:30	APSIPA General Assembly & Closing Ceremony									

Singapore Chapter Activities in 2024

The APSIPA Singapore Chapter has an exciting and eventful year in 2024!

On June 21, 2024, we host a joint seminar titled “Emerging Trends and Innovations in Machine Learning and AI” at Lecture Theatre 1, National University of Singapore. This seminar is a collaborative initiative organized by the Asia Pacific Signal and Information Processing Association (APSIPA, Singapore Chapter), in partnership with the IEEE Consumer Technology Society, IEEE Industrial Electronics Society, IEEE Systems, Man, and Cybernetics Society, and IEEE Signal Processing Society.

We are honored to feature Professor C.-C. Jay Kuo from the University of Southern California, USA, and Professor (Akihiko) Ken Sugiyama from Tokyo Metropolitan University, Japan, as keynote speakers. Alongside them, we hear from a distinguished panel of experts, including Dr. Yan Wu (I2R), Dr. Zhengguo Li (I2R), Dr. Bhan Lam, PhD (NTU), and Dr. Hexin Liu (NTU), who share their perspectives on a range of cutting-edge topics in the fields of machine learning and artificial intelligence.

We are grateful to the various IEEE Singapore chapters: Consumer Technology Society (CTS), Industrial Electronic Society (IES), Signal Processing Society (SPS), System, Man and Cybernetic (SMC) Society and Asia Pacific Signal and Information Processing Association (APSIPA) for supporting this joint event.

A wonderful turn out of audience members who took photos with our speakers:

On September 23, 2024, we co-organized the Nanyang Speech Tech Forum in collaboration with COLIPS and the IEEE Signal Processing Chapter. The forum featured a keynote address by Professor Ngai-Man Cheung, who spoke on the topic of Model Inversion in Deep Neural Networks.

In addition to the keynote, we hosted a student competition aimed at encouraging young researchers to showcase their published work. We were pleased to receive 12 student presentations, with the forum culminating in the presentation of the Best Student Paper Award and an Honourable Mention Award to two outstanding students.

APSIPA ASC 2025

The APSIPA Singapore Chapter is excited to announce that preparations are underway to host the APSIPA ASC 2025 in Singapore. Singapore is honored to be the first city to host the ASC twice, and we are committed to delivering an exceptional experience for next year's conference.

We have selected the prestigious Shangri-La Singapore as the venue, known for its beauty and world-class facilities. The organizing committee is working diligently to ensure that APSIPA ASC 2025 introduces fresh, engaging events designed to enhance the experience for all attendees.

We look forward to receiving your outstanding paper submissions. Below are some important links to guide you through the process:

- APSIPA ASC website: https://www.apsipa2025.org
- Conference Dates: 22-24 October 2025
- Submission of Paper: 7th June 2025

APSIPA and CSIG Joint Lectures on Intelligent Image and Graphics Processing

APSIPA and CSIG (Chinese Society of Image and Graphics) had a joint lectures on intelligent image and graphics processing in Xi'an on May 24, 2024. The cosponsors are APSIPA Education Program, APSIPS's SIPTM (Signal and Information Proc. Theory and Methods) Technical Committee and CSIG's DCHC(Digital Cultural Heritage Committee) committee. Professor Mingyi (APSIPA VP) and Professor Zhigen Pan (Former Vice President of CSIG) delivered opening and welcoming words. The host is Prof Yuchao Dai (Vice Chair of SIPTM TC, APSIPA). The Director of DCHC, Prof Zhigen Pan, and the Chair of SIPTM tech committee, Zhengguo Li, appeared the opening ceremony.

Three APSIPA Distinguished Lecturers and two well known professors from CSIG DCHC jointly presented their lectures. The 5 lectures with the titles on "Artificial Intelligence in Metaverse", "Benchmarking Photometric Stereo using a Broader Range of Real-world Data", "Hyperspectral and Multispectral Remote Sensing Image Super-resolution Fusion", "Research on Behavior and Phenotype Acquisition Based on Computer Vision" and "Single Image Dehazing- from Physics-Driven to Neural Augmentation" are presented respectively by Professor Zhigeng Pan from Nanjing Univ of Information Science and Tech, Professor Boxin Shi from Peking University, Professor Lianru Gao from Aerospace Information Research Institute of Chinese Academy of Science, Professor Meili Wang from Northwest Agriculture and Forestry Univ and Prof Zhengguo Li from A*STAR of Singapore. Over 100 participants enjoined the lectures and had active interactions with lectures.

This event is the first joint lectures after the MOU signed by APSIPA and CSIG in February 2024.

Prof M He delivered opening and welcoming word

Prof Y Dai is hosting the joint lectures

Prof Z Pan is presenting lecture

Prof L Gao is presenting lecture

Prof M Wang is presenting lecture

Prof Z Li is presenting lecture

Joint Lectures on Intelligent Image and Graphics Processing

CSIG DCH Committee and APSIPA SIPTM Tech Committee

CSIG: Chinese Society of Image and Graphics

APSIPA: Asia-Pacific Signal and Information Processing Association

8:30—12:00, May 24, 2024. Chang'an Campus Northwest University, China

Organizers SIPTM (Signal and Information Proc. Theory and Methods) Tech. Committee, APSIPA
DCHC (Digital Cultural Heritage Committee), CSIG

Support APSIPA Distinguished Lecturers Program

Host Prof Yuchao Dai, Northwestern Polytech Univ, China; Vice Chair of SIPTM TC, APSIPA

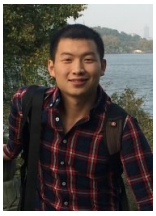
8:30--8:35 (Beijing Time)	**Opening Ceremony** Chaired by Prof Yuchao Dai
	Welcome speech, Prof Mingyi He, Vice President of APSIPA Welcome speech, Prof Zhigeng Pan, Former Vice President of CSIG
	8:35---10:50 Chaired by Prof Yuchao Dai
Lecture 1	**Artificial Intelligence in Metaverse**
Speaker	**Professor Zhigeng Pan**, Nanjing Univ of Information Science and Tech, CHINA
Lecture 2	**Benchmarking Photometric Stereo using a Broader Range of Real-world Data**
Speaker	**Professor Boxin Shi**, Peking University, CHINA
Lecture 3	**Hyperspectral and Multispectral Remote Sensing Image Super-resolution Fusion**
Speaker	**Professor Lianru Gao**, Aerospace Info Research Inst., Chinese Academy of Science, CHINA
Lecture 4	Research on Behavior and Phenotype Acquisition Based on Computer Vision
Speaker	**Professor Meili Wang**, Northwest Agriculture and Forestry Univ, CHINA
Lecture 5	**Single Image Dehazing- from Physics-Driven to Neural Augmentation**
Speaker	**Prof Zhengguo Li**, SIPTM TC Chair, FIEEE, Research Professor of A*STAR, Singapore

Panel Discussion on "Diffusion Models for Image and Video Tasks" Organized by APSIPA U.S. Local Chapter

This panel brings together the world's leading experts in computer vision to discuss "Diffusion Models for Image and Video Tasks". Speakers are leaders from the various visual intelligence fields, ranging from generative AI: image/video generation, compositional generation, generation for compression, generation for autonomous driving, generation for security, and more. As we all know, diffusion models have emerged as a powerful tool in the field of machine learning, particularly for generating high-quality images and videos. This panel discussion brings together experts from academia and industry to explore the cutting-edge applications and future directions of diffusion models, including but not limited to, Recent breakthroughs in diffusion models, Challenges and opportunities in image and video generation, Applications in creative industries, healthcare, and entertainment, and Ethical considerations and - responsible use of AI.

Speakers:

Chong Luo
Principal Researcher, Intelligent Multimedia Group (IMG)
Microsoft Research Asia, Microsoft Corporation, China
https://www.microsoft.com/en-us/research/people/cluo
https://scholar.google.com/citations?user=01iBf38AAAAJ&hl=en



Dongdong Chen
Principal Research Manager, Microsoft GenAI
Microsoft GenAI, Redmond, Washington, US
https://scholar.google.com/citations?hl=zh-CN&user=sYKpKqEAAAAJ

Xihui Liu
Assistant Professor, Department of Electrical and Electronic Engineering and Institute of Data Science (IDS)
University of Hong Kong, China
https://xh-liu.github.io

Shuai Yang
Assistant Professor, Wangxuan Institute of Computer Technology
Peking University, China
https://williamyang1991.github.io

Li Yuan
Tenure-track Assistant Professor, School of Electrical and Computer Engineering, Shenzhen Graduate School
Peking University, China
https://yuanli2333.github.io

Guo Lu
Assistant Professor, Media Lab of SJTU, Department of Electronic Engineering
Shanghai Jiao Tong University, China
https://guolusjtu.github.io/guoluhomepage/

Jiajun Deng
Research Fellow, Research Fellow
University of Adelaide (UoA), Australia
https://djiajunustc.github.io

Moderator:

Xin Jin
Assistant Professor, Director of Intelligent Media and Visual Computing Lab, College of Information Science &
Technology
Eastern Institute of Technology (EIT), Ningbo, China
https://www.eitech.edu.cn/?tid=40&p=teacher

IIEEJ International Conference on Image Electronics and Visual Computing 2024 Special Session: Industry Forum with APSIPA Industry Relations and Development, IEEE Signal Processing Society, IEEE Circuits and Systems Society, IEEE Solid-State Circuits Society

March 14, 2024, Afternoon (Taiwan Time GMT+8),

Theme: AI and the Era of Smart Semiconductors

Motivation:

Niklaus Emil Wirth introduced the innovative concept of Programming = Algorithm + Data Structure. Inspired by this, we advance the concept to the next level by stating that Design = Algorithm + Architecture. As algorithms, especially those in Artificial Intelligence (AI), with high accuracy become exceedingly more complex and edge or Internet-of-Things generated data become increasingly larger, flexible parallel and reconfigurable processing are crucial in the design of lightweight systems with low complexity and low power. Furthermore, neuromorphic edge with non-von Neumann architectures witness broad applications such as in computing in memory (CIM), requiring energy-efficient design optimizations of the intelligent algorithm at the device level and possibly lower. Therefore, AI systems and smart semiconductor designs crossing levels of algorithm, system architecture, VLSI, circuit, device, etc. poses challenges which are key to the development and success of the global information technology and semiconductor community in the age of AI.

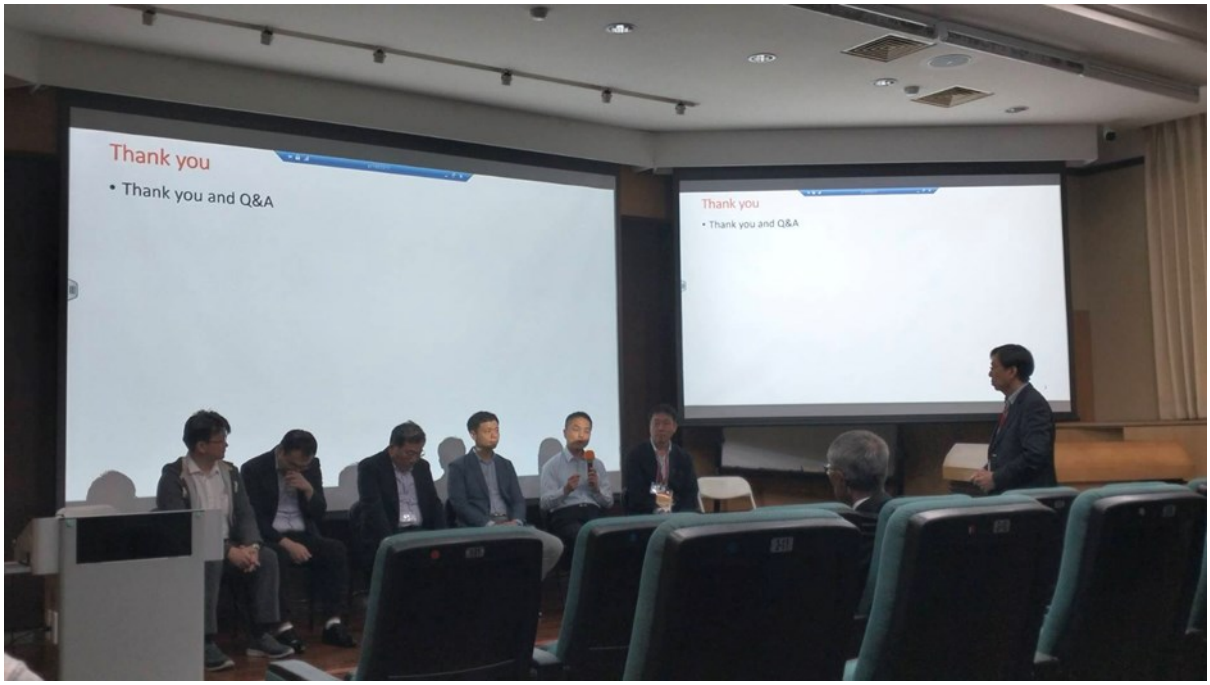
CHALLENGES BRING OPPORTUNITIES!

With these CHALLENGES amid current vibrant semiconductor environment, this Industry Forum (IF) provides a platform for experience sharing of new disruptive OPPORTUNITIES with yet more emphasis on AI and concurrent optimization of algorithm and architecture! This industry Forums targets students, young professionals & women-in-engineering (SYW). Industry speakers are invited to share pain spots or unmet needs with academia innovate together for solutions. This provides students with real world research topics and/or possible internship opportunities. Academia works on real world problems with research outcome required by industry! As such this IF anticipates yet more emphasis on cross pollination between academia & industry in fostering Innovation, Internship, Industrialization, and Internationalization among Taiwan, Japan, and Korea!

With the theme on “AI and the Era of Smart Semiconductors,” this IIEEJ International Conference on Image Electronics and Visual Computing 2024 Special Session: Industry Forum with APSIPA Industry Relations and Development, IEEE Signal Processing Society, IEEE Circuits and Systems Society, IEEE Solid-State Circuits Society at Tainan, Taiwan on Mar. 14th, 2024 from 1:20PM till 5:00PM as a Physical Conference in Taiwan & Virtual Internationally at International Conference Center, National Cheng Kung University by the organizers as stipulated below.

Opening Ceremony/Remarks

Organizer Speech for Opening Remarks



List of all Honorable Guests

International Workshop on HPC for AI

Workshop on Visual Data Coding, Standards, and Quality Assessment

Workshop on Visual Data Coding, Standards, and Quality Assessment

Date: June 11 (Tuesday), 2024

Time: 10:00 - 12:10 Taiwan (UTC+8)

Location: Room 329, Engineering Building 3 (工程三館), National Yang Ming Chiao Tung University, Taiwan

Organizer: Prof. Wen-Hsiao Peng, National Yang Ming Chiao Tung University, Taiwan

Program:

Time (UTC+8)	Topic	Speaker
10:00 - 10:30 (30 mins)	Green Point Cloud Quality Assessment	Prof. C.-C. Jay Kuo
10:30 - 10:50 (20 mins)	MPEG Road Map on Audio, Video, Graphics, Genome, and Systems	Prof. Joern Ostermann
10:50 - 11:10 (20 mins)	Overview on JVET exploration activities	Prof. Jens-Rainer Ohm
11:10 - 11:40 (30 mins)	MPEG Visual Quality Assessment for Emerging Video Coding Schemes	PD Mathias Wien
11:40 - 12:10 (30 mins)	Masked Conditional Residual Transformer for Learned Video Coding	Prof. Wen-Hsiao Peng

Prof. C.-C. Jay Kuo
Univ. of Southern California, USA

Prof. Joern Ostermann
Leibniz Universität Hannover, Germany

Prof. Jens-Rainer Ohm
RWTH Aachen Univ. Germany

PD Mathias Wien
RWTH Aachen Univ., Germany

Prof. Wen-Hsiao Peng
National Yang Ming Chiao Tung Univ.

News on APSIPA Transactions on Signal and Information Processing

Besides regular papers, APSIPA Transactions on Signal and Information Processing (ATSIP) has published 4 Special Issues this year. They are:

- Volume 13, Issue 2: Pre-trained Large Language Models for Information Processing (editorial and four papers)
- Volume 13, Issue 3: Advanced Machine Learning Techniques for Remote Sensing: Algorithms and Applications (editorial and four papers)
- Volume 13, Issue 4: Emerging Wireless Sensing Technologies for Smart Environments (editorial and five papers)
- Volume 13, Issue 5: Invited Papers from APSIPA ASC 2023 (editorial and five papers)

All papers are free to download since ATSIP is an open-access journal. The call-for-papers for the following two special issues are still open:

- Three-dimensional Point Cloud Data Modeling, Processing, and Analysis (Due 10/31/2024)
- Deepfakes, Unrestricted Adversaries, and Synthetic Realities in the Generative AI Era (Due 10/31/2024)

One unique feature of ATSIP is its fast turnaround time. Almost all accepted papers get a first decision in 2 months and appear online in 6 months.

For more information, please visit https://www.nowpublishers.com/SIP.

CALL FOR PROPOSALS APSIPA-ASC 2027

The APSIPA Association is now accepting proposals for the 2027 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA-ASC).

APSIPA-ASC is the premier international forum for the technological advances and research results in the fields of theoretical, experimental, and applied signal and information processing. APSIPA-ASC is the flagship conference of the APSIPA Association and attracts around 500 attendees annually. Research frontiers in fields ranging from traditional signal and information processing applications to evolving related technologies are regularly advanced by results first reported in APSIPA-ASC sessions and events. APSIPA Members are invited to submit a proposal to host APSIPA-ASC. If you are interested in submitting a proposal, please review the guideline which can be found at:

http://www.apsipa.org/doc/2023_7_19_Procedures_APSIPA_ASC_Organizer_Application_Approval.pdf

To submit a bid, please complete and submit the APSIPA-ASC Proposal Pre-Screening Form to VP-Conference (Bonnie Law; e-mail: ennflaw@polyu.edu.hk) by 15 Dec 2024. Proposal Pre-screening Forms will be assessed by the APSIPA-ASC Conferences committee to determine the final proposing teams. The final proposing teams will be invited to prepare full proposals, and if approved, asked to present them at the APSIPA-ASC Conference Committee meeting held online in the beginning of February 2025.

Summary of Links

- APSIPA ASC 2024: http://www.apsipa2024.org/
- APSIPA ASC 2023: http://www.apsipa2023.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
- APSIPA Photo Gallery: http://www.apsipa.org/photo/photo.htm

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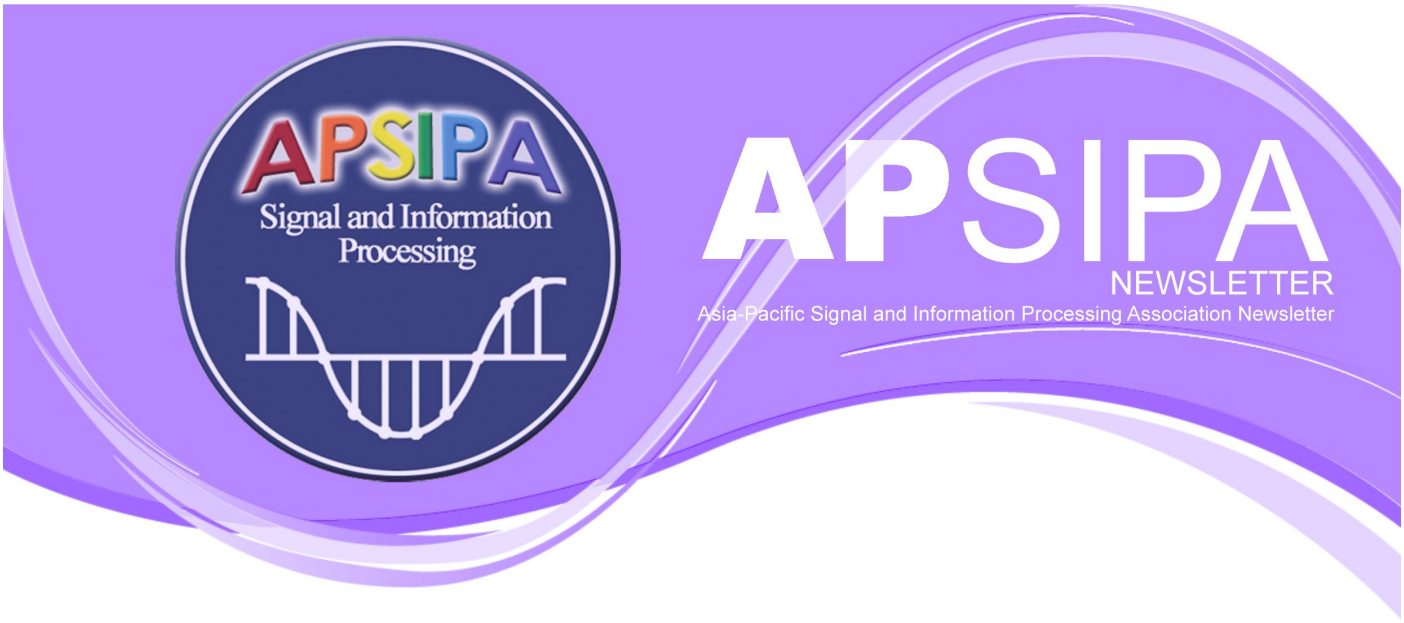

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