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# APSIPA ASC 2025 Perspective & Panel Session

## Utilization of the Foundation Models and the Future



Date and time: 16:30 – 18:00, Oct 22, 2025

Venue: Island Ballroom



**Moderator**

**Isao Echizen,**

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**Professor, National Institute of  
Informatics (NII) (DL 2024-2025)**

**Bio:** Isao Echizen is a director and a professor of the Information and Society Research Division, the National Institute of Informatics (NII), a director of the Global Research Center for Synthetic Media, the NII, and a professor in the Graduate School of Information Science and Technology, the University of Tokyo. He was a visiting professor at the University of Freiburg, Germany, and at the University of Halle-Wittenberg, Germany. He is currently engaged in research on multimedia security and multimedia forensics. He is a research director in the JST CREST FakeMedia project and in the JST K Program SYNTHETIQ X, Japan Science and Technology Agency (JST). He received the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology (Research category) and the IEICE Achievement Award in 2025, the IEEE Workshop on Information Forensics and Security Best Paper Award in 2017, the Information Security Cultural Award in 2016, and the DOCOMO Mobile Science Award in 2014. He is the Japanese representative on IFIP and on IFIP TC11 (Security and Privacy Protection in Information Processing Systems), a vice president of APSIPA. He is a fellow of IEICE, a fellow of IPSJ, and a senior member of IEEE.

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# Shiqi Wang,

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Panelist

Professor, Department of Computer Science,  
City University of Hong Kong, Hong Kong,  
China (DL 2025-2026),

**Bio:** Shiqi Wang is a Professor with the Department of Computer Science, City University of Hong Kong. He has proposed more than 70 technical proposals to ISO/MPEG, ITU-T, and AVS standards, and authored or coauthored more than 300 refereed journal articles/conference papers. His research interests include video compression, image/video quality assessment, and image/video search and analysis. He received the Best Paper Award from IEEE VCIP 2019, ICME 2019, IEEE Multimedia 2018, and PCM 2017. His co-authored article received the Best Student Paper Award at the IEEE ICIP 2018. He was a recipient of the 2021 IEEE Multimedia Rising Star Award in ICME 2021. He served or serves as an Associate Editor for IEEE Transactions on Circuits and Systems for Video Technology, IEEE Transactions on Multimedia, IEEE Transactions on Image Processing, and IEEE Transactions on Cybernetics. He was also the technical program co-chair of IEEE ICME 2024.

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## Hanwei Zhu,

Research Scientist, Alibaba-NTU Global e-Sustainability CorpLab (ANGEL), Nanyang Technological University, Singapore

**Bio:** Dr. Hanwei Zhu is a Research Scientist with the Alibaba-NTU Global e-Sustainability CorpLab (ANGEL) at Nanyang Technological University, Singapore. He earned his Ph.D. degree from City University of Hong Kong in 2025. His research interests include perceptual image processing, computational vision, and computational photography.

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# **Koki Wataoka,**

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**Panelist**

Responsible AI Team, SB Intuitions, Japan

**Bio:** Koki Wataoka leads the Responsible AI Team in the Data & Safety Department of the R&D Headquarters at SB Intuitions, Japan, where he oversees research and development to advance the safety of LLMs and VLMs. He earned his master's degree from the Graduate School of System Informatics at Kobe University in 2021. That same year, he joined LINE Corporation (now LINE Yahoo!), focusing on the reliability and safety of large-scale language models. In 2023, he moved to SB Intuitions, where he continues to drive responsible AI initiatives and strengthen the safety of next-generation AI systems.

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# Huy Hong Nguyen, **Panelist**

Researcher, SB Intuitions, Japan

**Bio:** Huy H. Nguyen is a researcher at SB Intuitions, a SoftBank Group company. He is also a visiting associate professor at the National Institute of Informatics (NII), Japan. His research focuses on improving the safety, security, and privacy of LLMs and VLMs, as well as the generation and detection of synthetic media. His future research vision includes extending these efforts to safeguard artificial general intelligence (AGI). He earned his Ph.D. from The Graduate University for Advanced Studies (SOKENDAI) in collaboration with NII in 2022.

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# Visual Quality Assessment Based on Large Vision-Language Models

by Prof. Shiqi Wang and Dr. Hanwei Zhu

**Abstract:** Large vision–language models (LVLMs) have recently exhibited significant potential in visual understanding tasks, yet systematically evaluating their image quality assessment (IQA) capabilities remains challenging. This talk introduces a unified approach to IQA that transitions from traditional scalar metrics to sophisticated reasoning-based evaluation. Specifically, we present three key innovations: (1) a Two-Alternative Forced Choice (2AFC) framework employing strategic pairing and maximum-a-posteriori inference for robust LVLM ranking; (2) an open-ended visual quality comparison task enabling detailed and context-aware model rationales; and (3) a novel no-reference IQA model that translates comparative judgments from LVLMs into continuous quality scores. Additionally, we introduce AgenticIQA, a modular, divide-and-conquer framework that combines LVLM reasoning with conventional IQA tools, coordinated by planning, execution, and summarization agents. Together, these contributions chart a path towards intelligent, interpretable, and adaptable visual quality assessment for the next generation of multimodal models.

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# Foundation Models as Guardrails: LLM- and VLM-Based Approaches to Safety and Alignment

by Mr. Koki Wataoka and Dr. Huy Hong Nguyen

**Abstract:** The growing deployment of large language models (LLMs) and vision-language models (VLMs) raises urgent concerns about safety and alignment. While alignment techniques such as supervised fine-tuning (SFT) and reinforcement learning from human feedback (RLHF) improve model behavior, they are not sufficient to prevent harmful outputs. This paper reviews recent approaches that use foundation models themselves as guardrails systems that monitor or filter inputs and outputs for safety. We cover LLM-based moderation, neural classifiers, and multimodal safety filters, highlighting both academic advances and industry tools. We also discuss empirical evaluation methods such as red teaming and adversarial prompting. Finally, we outline open challenges in robustness, interpretability, and policy adaptation, pointing to key directions for building trustworthy guardrails for generative AI.

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# PROGRAM

Time	Content
16:30–16:35	Introduction by moderator (Isao Echizen)
16:35–17:05	<b>Visual Quality Assessment Based on Large Vision-Language Models</b> by Prof. Shiqi Wang and Dr. Hanwei Zhu
17:05–17:35	<b>Foundation Models as Guardrails: LLM- and VLM-Based Approaches to Safety and Alignment</b> by Mr. Koki Wataoka and Dr. Huy Hong Nguyen
17:35–18:00	Open discussion (incl. Q&A)

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# Open Discussion

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## APSIPA ASC 2025 Perspective & Panel Session Utilization of the Foundation Models and the Future

- How will large language models (LLMs) and visual language models (VLMs) evolve in the future?
  - ✓ Dramatic quality improvement and concerns about abuse
- Is symbiosis between humans and AI possible?
  - ✓ AI intervention in knowledge creation and education (e.g., AI4Research)

