WAIE 7th

2025 7th International Workshop on ARTIFICIAL INTELLIGENCE AND EDUCATION

ICMIS 2025 3rd International Conference on Management Information System

September 27-29, 2025
YOKOHAMA, JAPAN

CONFERENCE PROGRAM

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WAIE 2025
ARTIFICIAL INTELLIGENCE AND EDUCATION

2025 7th International Workshop on

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ICMIS 2025

2025 3rd International Conference on

MANAGEMENT INFORMATION SYSTEM

September 27-29, 2025 | Yokohama, Japan

Co-sponsored by

工学院大学 KOGAKUIN UNIVERSITY

IEEE

Hosted by

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KHARKIV NATIONAL MEDICAL UNIVERSITY

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WELCOME MESSAGE

We are pleased to welcome you to 2025 7th International Workshop on Artificial Intelligence and Education (WAIE 2025), and 2025 3rd International Conference on Management Information System (ICMIS 2025), which will be held in Yokohama, Japan during September 27-29, 2025. It is co-sponsored by Kogakuin University, Japan and IEEE, hosted by Kogakuin University, Japan.

The annual international conference is aimed to bring together the researchers, experts, and scholars around the world to exchange their research results and address open issues in related fields. We hope these conferences would be able to achieve its objective in providing an effective forum for academician, researchers, and practitioners to advancing knowledge, research, and technology in related fields. It is one of the leading international conferences for presenting novel and fundamental advances in the fields of Artificial Intelligence and Education, Management Information System.

This year's program will consist of 3 keynote speeches from Prof. Guandong Xu (The Education University of Hong Kong, China), Prof. Eric Tsui (The Hong Kong Polytechnic University, Hong Kong), Prof. Yong Jin Kim (Sogang University, South Korea), another 2 invited talks, 8 onsite oral sessions and 4 online oral sessions.

It is pleasing to note that the agenda of this conference covers a wide range of interesting topics related to all theoretical and practical aspects, but not limited to Artificial Intelligence in Education and Educational Robotics, E-Commerce, Service-Based Artificial Intelligence, and Information Management, etc.

Last but not least, our deepest gratitude goes to the Advisory Board, Organizing Committee, International Scientific Committee, institutions, and volunteer who have directly and indirectly supported the success of this seminar. Wish you a very productive conference with exciting and encouraging discussions and exchange of knowledge so that together we can anticipate a future of ground-breaking knowledge, research, and technology.

Finally, we wish you a very successful conference! Hope you will enjoy your stay to Yokohama, Japan.

Conference Organizing Committee

GENERAL INFORMATION

◆Conference Venue

TKP Garden City PREMIUM Yokohamanishiguchi
<TKP ガーデンシティ PREMIUM 横浜西口>

Add: 日本〒220-0005 Kanagawa, Yokohama, Nishi Ward, Minamisaiwai, 2 Chome−19−9
<〒220-0005 神奈川県横浜市西区南幸 2-19-9 TKP 横浜ビル (事務所：3 階)>
https://www.kashikaigishitsu.net/facilitys/gcp-yokohama-nishiguchi/

◆Onsite Registration

Go to the registration desk→ Inform the staff of your paper ID→ Sign-in→ Claim your conference kit.

◆Devices Provided by the Organizer

Laptops (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Sticks

◆Materials Provided by the Presenter

Oral Session: Slides (pptx or pdf version). Format 16:9 is preferred.

◆Duration of Each Presentation

Keynote Speech: 40 min, invited speech: 20 min.

Onsite/Online Oral Session: 15min apiece, include 13 min for presentation, 2min for Q&A.

◆NOTICE

※ Please wear your delegate badge (name tag) for all the conference activities. Lending your participant card to others is not allowed.

※ Please take good care of your valuables at any time during the conference. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants during conference day.

◆Zoom Meeting ID

Room	Meeting ID	Meeting Link	
A	890 3355 0556	https://us02web.zoom.us/j/89033550556	✧ Zoom Download: here ✧ Guide for new users: here ✧ Conference Banner: here ✧ Zoom Background: here *We suggest you to download the Zoom platform in advance.*
B	899 5853 5044	https://us02web.zoom.us/j/89958535044	

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(in no particular order)

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AGENDA OVERVIEW

Onsite: Venue in Ykohama:	TKP Garden City PREMIUM Yokohamanishiguchi （TKP ガーデンシティ PREMIUM 横浜西口）
Online: Zoom Meeting ID:	Room A: 890 3355 0556 Link: https://us02web.zoom.us/j/89033550556 Room B: 899 5853 5044 Link: https://us02web.zoom.us/j/89958535044

September 27 Saturday (GMT+9)		
10:00~16:00	Onsite Registration for ALL offline attendees	Meeting Room 8B (the 8th Floor)
14:00~16:00	**Tutorial: Applying AI tools to research**	**Meeting Room 8A (the 8th Floor)**
14:30~17:00	Zoom Pre-test for ALL Online Attendees	See below

Zoom Pre-test for All Online Attendees

※Participants who are going to do an online presentation are required to join the Zoom pre-test on September 27 (GMT+9). Duration: 3 minutes apiece. Free to leave after you finish the rehearsal.

1. We recommend to install the Zoom platform beforehand. New users can login the Zoom meeting without registration.
2. Please set your display name before joining the online meeting. For instance,

◆Name Setting

Keynote Speaker: Keynote-Name Author: Paper ID-Name < EA001_Name >
Committee: Position-Name Delegate: Delegate-Name < Delegate_Name >

September 27, 2025	Zoom Room A: 890 3355 0556
14:30-17:00	
14:30-15:00	EA213-A, EA221, EA051, EA087, EA095, EA104, EA159, EA166, EA108, EA144
15:00-15:30	EA025, EA014, EA148, EA176, EA178, EA100, EA160, EA165, EA063, EA038-A
15:30-16:00	EA161, EA205, EA167, EA194, EA137, EA115, EA084, EA131, EA103
16:00-16:30	EA195, EA152, EA1008, EA130, EA109, EA508-A, EA509, EA529-A, EA510-A
16:30-17:00	※Participants who are unavailable during the above allocated time can join the rehearsal at 16:30-17:00

September 28| Sunday (GMT+9)		
Meeting Room 2A (the 2th floor) | Zoom Room A: 890 3355 0556 Chairman: tba		
09:00-09:10	Welcome Address	**TBA**
	Opening Remarks	**TBA**
09:10-09:50	Keynote Talk Title: Large Language Models and Multi-Agent Systems Empowering Educational Innovation and Practice	**Prof. Guandong Xu** The Education University of Hong Kong, China
09:50-10:30	Keynote Talk title: Technologies for facilitating Knowledge creation & learning	**Prof. Eric Tsui** Affiliations: The Hong Kong Polytechnic University, Hong Kong
10:30-11:00	Group Photo & Morning Break	
11:00-11:40	Keynote Talk title: The New Paradigm of Financial Innovation Brought by STOs and Stable coins	**Prof. Yong Jin Kim** Sogang University, South Korea
11:40-12:00	Invited Talk Title: Empowering Education through Generative AI: Opportunities, Challenges, and Responsible Innovation	**Prof. Fahim Khan** Toyo University, Tokyo, Japan
12:00-12:20	Invited Talk Title: AI-Guided Meditation and the Brain: EEG Alpha-Theta Dynamics and User Engagement	**Prof. Hui-Wen Huang** Shaoguan University, China
12:20-13:30	Lunchtime < Meeting Room 2A (the 2th floor) >	
Onsite Sessions		
13:30-16:00	**(Meeting Room 3A | the 3rd floor)**	
	Onsite Session 1: AI in Educational: Ethical Governance, Literacy Development, and Psychological Applications Session Chair: EA505, EA526-A, EA075-A, EA197, EA150, EA145, EA192, EA034, EA073, EA049	
	(Meeting Room 3B | the 3rd floor)	
	Onsite Session 2: Educational Data Mining and Learning Analytics Session Chair: Prof. Paulus Insap Santosa, Universitas Gadjah Mada, Indonesia EA186, EA188, EA015, EA113, EA062, EA199, EA047-A, EA016, EA068, EA216	
	(Meeting Room 6B | the 6th floor)	
	Onsite Session 3: Educational Robotics, Intelligent Tutoring Systems, and Personalized Learning Support Session Chair: Prof. Jordi Rabago, Tecnológico de Monterrey, León, Mexico	

	EA061-A, EA085, EA026, EA059, EA058-A, EA077, EA125, EA123, EA030-A, EA208
	(Meeting Room 6C ｜ the 6th floor)
	Onsite Session 4: Immersive Learning Technology and Gamified Learning Session Chair: Asst. Prof. Ronel F. Ramos, FEU Institute of Technology, Philippines EA028, EA033, EA174, EA064, EA139, EA155, EA180, EA514-A, EA027
15:45-16:15	Coffee Break
16:15-18:30	**(Meeting Room 3A ｜ the 3rd floor)**
	Onsite Session 5: Generative AI and Large Language Models in Education Session Chair: Assoc. Prof. Nobuyuki Sugio, Hokkaido University of Science, Japan EA128, EA157, EA207, EA206, EA096, EA118, EA140, EA072-A, EA060
	(Meeting Room 3B ｜ the 3rd floor)
	Onsite Session 6: AI-Enabled STEM and Culturally-Responsive Education Session Chair: EA219, EA127, EA031, EA024, EA146, EA1010, EA032, EA017, EA057
	(Meeting Room 6B ｜ the 6th floor)
	Onsite Session 7: AI-Driven Learning Innovation and Digital Teaching Practice Session Chair: EA112, EA036, EA129, EA151, EA169, EA187-A, EA042, EA056, EA1006
	(Meeting Room 6C ｜ the 6th floor)
	Onsite Session 8: Management Information Systems and Data-Driven Decision Management Session Chairs: EA218, EA196, EA2001, EA507-A, EA528, EA516, EA519-A, EA138
18:30-20:30	**Dinner Time** < Meeting Room 4C, the 4th Floor >

September 29 | Monday (GMT+9) *(Note: All presentations on the 29th are online)*	
Online Sessions Zoom Room A: 890 3355 0556; Link: https://us02web.zoom.us/j/89033550556 Zoom Room B: 899 5853 5044; Link: https://us02web.zoom.us/j/89958535044	
09:00-11:30 (ZOOM A)	**Online Session 1: Technical Architectures and Assessment Methods in Educational AI** Session Chair: EA213-A, EA221, EA051, EA087, EA095, EA104, EA159, EA166, EA108, EA144
09:00-11:30 (ZOOM B)	**Online Session 2: AI in Subject Teaching and Vocational Education** Session Chair: EA025, EA014, EA148, EA176, EA178, EA100, EA160, EA165, EA063, EA038-A
11:30-11:45	Break
11:45-14:00 (ZOOM A)	**Online Session 3: Generative AI in Education: User Perceptions and Ethical Challenges** Session Chair: EA161, EA205, EA167, EA194, EA137, EA115, EA084, EA131, EA103
11:45-14:00 (ZOOM B)	**Online Session 4: Data-Driven Educational Research and Business Analytics** Session Chair: EA195, EA152, EA1008, EA130, EA109, EA508-A, EA509, EA529-A, EA510-A
Note: The meeting room will open 30 minutes earlier than scheduled. Please enter your room 10-15 minutes early. NO-SHOW POLICY Papers unpresented at the conference, without prior written approval by the Conference Technical Program Chair, will be removed from the final conference proceedings before uploading to journals. No refund will be approved to authors of those papers.	

INTRODUCTION OF TUTORIAL

Speaker: Prof. Eric Tsui

The Hong Kong Polytechnic University, Hong Kong

Date: September 27 | Saturday (GMT+9)
Venue: Meeting Room 8A (the 8th floor)
Time: 14:00-16:00

Topic: Applying AI tools to research

This workshop introduces a structured framework for categorising AI tools that support various stages of the research process. Through selective demonstrations and practical case studies, attendees will explore how to strategically leverage specific AI tools to enhance, among others, decision-making, formulation of research questions, choice of research methodologies, data analysis and citations management. Participants will gain insights into evaluating the suitability, strengths, and limitations of different public domain tools, enabling them to accelerate research workflows and improve overall quality of research. The session will also address ethical considerations and governance practices adopted by major publishers and journals. Additionally, the speaker will offer practical tips on safeguarding previous work and future-proofing research efforts in the face of rapidly evolving technologies.

INTRODUCTION OF KEYNOTE SPEAKER

Speech Title: Large Language Models and Multi-Agent Systems Empowering Educational Innovation and Practice

Prof. Guandong Xu
The Education University of Hong Kong, China

Abstract: With the rapid advancement of artificial intelligence (AI) technologies, LLM-based multi-agent systems are increasingly becoming a key driver of innovation in the field of education. Against the backdrop of the "AI + Education" era, this talk draws on the Digital Competence Framework of The Education University of Hong Kong and the practical experience of the Learning, Teaching, and Technology Centre (LTTC) to systematically explore the enabling role of generative AI in educational innovation. The talk will focus on the latest research progress in large language models (LLMs) and multi-agent technologies, particularly in areas such as pedagogy-integrated LLM, fine-tuning and agentic AI. It will also delve into their practical applications in higher education. Through concrete case studies, the report will analyze the innovative value and transformative potential of the Model-as-a-Service (MaaS) paradigm in personalized teaching and intelligent assessment in universities. Finally, the talk will outline future research directions, aiming to provide theoretical support and practical guidance for the intelligent transformation of education, thereby fostering deeper integration and innovative development of AI technologies in the educational sector.

Professor Guandong Xu is currently a Chair Professor of Artificial Intelligence at The Education University of Hong Kong, Director of the University Research Facility of Data Science and Artificial Intelligence (UDSAI), and Director of the Centre for Learning, Teaching and Technology (LTTC). Professor Xu is a distinguished scholar in the fields of data science, artificial intelligence, and social computing, renowned internationally for his groundbreaking research, evidenced by over 350 papers in top-tier international journals and conferences. He has been listed in Stanford University's top 2% of World Scientists since 2021. Professor Xu serves as the Founding Editor-in-Chief of the journal Human-centric Intelligent Systems (Springer) and as an Associate Editor-in-Chief of the World Wide Web Journal (Springer). Professor Xu is a Fellow of the Institution of Engineering and Technology (IET) and the Australian Computer Society (ACS).

INTRODUCTION OF KEYNOTE SPEAKER

Speech Title: Technologies for facilitating Knowledge creation & learning

Prof. Eric Tsui
The Hong Kong Polytechnic University, Hong Kong

Abstract: This talk explores how Generative AI (G-AI), including ChatGPT, and metaverse can enhance student engagement and personalised learning. It covers the use of G-AI as a virtual tutor offering real-time, tailored support. The session also introduces gamification and self-paced learning strategies that adapt to individual learners' needs. The use of metaverse technologies to create immersive,interactive learning environments. Together, these innovations offer powerful tools for educators to foster deeper understanding, motivation, and flexible learning pathways.

Eric Tsui is former Associate Director of the Behaviour and Knowledge Engineering (BAKE) Research Centre and currently a Senior Project Fellow at the Educational Research Centre at The Hong Kong Polytechnic University. He is the coordinator of the Hong Kong MIKE award and a Vice President of the Hong Kong Knowledge Management Society. A recipient of many Knowledge Management and E-Learning international awards including the Knowledge Management Award for Excellence in 2021 and the QS Wharton Reimagine Education Gold Award (Asia) in 2015, Professor Tsui was twice listed as an exemplary/outstanding academic in PolyU Annual Reports in the last 8 years.

INTRODUCTION OF KEYNOTE SPEAKER

Speech Title: The New Paradigm of Financial Innovation Brought by STOs and Stable coins

Prof. Yong Jin Kim
Sogang University, South Korea

Abstract: How will blockchain-based financial products such as security tokens and stable coins be reshaping traditional finance? Security Token Offerings (STOs) as digitized securities enable fractional ownership of high-value assets like real estate or artwork, making investment more accessible to retail investors. By classifying these tokens as securities, countries such as Switzerland and the United States have applied existing legal frameworks to regulate them, reflecting the growing integration of STOs into mainstream finance. Recently emerging stable coins function as a core infrastructure in the digital financial ecosystem. With global issuance projected to exceed $250 billion by 2025, stable coins are no longer experimental but mainstream financial instruments. Stable coins are categorized into fiat-backed, crypto-backed, and algorithmic types, and dollar-based stable coins dominate with over 95% market share. Their primary use is as reserve currencies in crypto trading, though their role is expanding to remittances, payments, and collateralized investments in U.S. Treasuries—creating significant revenue streams for issuers. As the digital asset market grows quickly, a new regulatory measures are required to prevent illegal use of the digital assets like money laundering and drug trafficking. Another issue for countries including Korea and Japan is how to create strategic opportunity to lead in digital assets market through stable coins. In addition to it, required are stronger security systems, consumer protection, and alignment with global regulatory standards. Overall, STOs and stablecoins are identified as transformative forces that democratize investment, enhance liquidity, and accelerate the transition to a global digital economy.

Yong Jin Kim is Professor of MIS at Sogang Business School and Head of Smart Fintech Research Center funded by Korean Government. Recently he was awarded Order of Service Merit (Green Stripe) by Korean Government. He will be the president of Asia Council for Small Business and the president of Korea Society of MIS. He is the Editor-in-Chief of Korea Business Review and the president of Academic Association of Korea Motor Industry. He is a member of Financial Regulatory Sandbox (run by Korea Financial Services Commission) and SME Policy Deliberation Committee. He is an outside board member of Hyundai Department Store which is one of the biggest retail companies in Korea. He has also served on various government committees. Before he joined Sogang, he was on the faculty of the State University of New York at Binghamton. He has published over 50 papers since 2002 in the top quality journals including MIS Quarterly and Communications of the ACM. He has also published several books about service innovation. His research interest is in the area of digital transformation, business model innovation, knowledge management, and entrepreneurship. He has plenty of industry experience with information systems integration projects and strategic planning.

INTRODUCTION OF INVITED SPEAKER

Speech Title: Empowering Education through Generative AI: Opportunities, Challenges, and Responsible Innovation

Prof. Fahim Khan
Toyo University, Tokyo, Japan

Abstract: This talk examines the potential of Generative Artificial Intelligence (GenAI) to reshape educational practices by enabling personalized learning pathways, broadening access to high-quality education, and enhancing the capacity of educators to develop dynamic and interactive instructional materials. As a driver of innovation and inclusivity, GenAI offers promising solutions to longstanding challenges within contemporary educational systems. Yet, these prospects are accompanied by significant ethical and practical concerns. While there are well-known GenAI challenges regarding hallucination, data privacy and algorithmic bias, this talk will critically engage with the potential diminishment of critical thinking skills among learners due to irresponsible use of GenAI. The latter portion of the presentation will highlight a case study from an active research initiative, illustrating how multimodal GenAI can be effectively employed in self-directed, inquiry-based programming instruction—balancing cost-efficiency with pedagogical integrity. In a nutshell, rather than advocating for wholesale adoption or rejection, the objective is to consider how GenAI's capabilities can be responsibly harnessed to foster equitable, empowering, and high-quality educational opportunities.

Dr. Fahim Khan is a Professor at the Department of Information Networking for Innovation and Design (INIAD) in Toyo University, Tokyo, Japan. Prior to joining Toyo University, he served as a faculty member at the University of Tokyo, from where he also obtained his MS and PhD in Applied Computer Science. His recent research encompasses several avenues of applied computing, including: developing security measures for IoT and smart spaces; designing distributed systems using machine learning, GenAI, and blockchain; and leveraging EdTech and learning sciences for CS, STEM and SDGs education. His research publications have won multiple best paper awards at IEEE conferences. He actively serves as a committee member at numerous IEEE and ACM conferences. A Senior Member of IEEE, Khan is a recipient of IEEE Japan Medal. He is also a globally selected member of ACM Future of Computing Academy (ACM-FCA), an initiative that brings together next-generation leaders in computing to carry the computing community into the future.

INTRODUCTION OF INVITED SPEAKER

Speech Title: AI-Guided Meditation and the Brain: EEG Alpha-Theta Dynamics and User Engagement

Prof. Hui-Wen Huang
Shaoguan University, China

Abstract: This study compares the effectiveness of AI-guided meditation and text-based meditation for emotion regulation by analyzing the alpha-theta ratio (ATR) in electroencephalography (EEG) data. Both EEG recordings and post-task interviews were utilized to address the research questions. A total of 23 participants (aged 19–21) were randomly assigned to either the AI-guided or text-based meditation group. Alpha-theta cross-frequency dynamics, a recognized neurophysiological marker of meditative states, were examined. The AI-guided meditation group engaged with Doubao, a locally developed AI chatbot in China.

Results indicated significant differences in ATR between the two groups, with the AI-guided meditation group exhibiting lower ATR values. According to existing literature, lower ATR is associated with deeper meditative states and increased relaxation. Qualitative interview findings further suggested that AI-guided meditation effectively supported internal attention and emotion regulation. However, two participants noted that the chatbot's tone felt less emotionally engaging compared to human-led or video-based meditation formats.

In educational contexts, the findings highlight the potential of integrating AI-guided meditation as a low-cost, accessible tool to support students' emotional regulation, focus, and stress management. Incorporating such interventions into learning environments—particularly in high-pressure or emotional demanding academic settings—may enhance students' cognitive readiness and overall well-being, ultimately contributing to more effective learning outcomes.

Dr. Hui-Wen Huang is a professor in the College of Education at Shaoguan University, Guangdong, China. She completed her Ph.D. degree in curriculum and instruction with a focus on online education from the University of Idaho, U.S.A. Prior to her current position, she had worked in various universities, including Taiwan, the U.S., and Mainland China, as a faculty member in teaching and research over the past two decades. Her recent work involves immersive learning using 360 VR videos across disciplines and artificial intelligence (AI) in education. Dr. Huang has published more than 30 SSCI-indexed journal articles and international conference proceedings indexed by EI Compendex on educational technology, technology-supported mental health, and human-AI interactions. She has actively served the academic communities, either as an invited speaker or technical committee member, in different international conferences over the past five years. She has been working with different scholars in Japan, Australia, and the U.S. to help EFL learners develop cross-cultural competence since Spring 2020. Recently, she is working on applying AI technologies in education and psychology.

PARALLEL ONSITE SESSIONS

September 28 (Sunday) 13:30-16:00

(Meeting Room 3A | the 3rd floor)

Onsite Session 1: AI in Educational : Ethical Governance, Literacy Development, and Psychological Applications

Session Chair:

Time	Paper ID	Speech Title & Presenter
13:30-13:45	EA505	Generative AI Adoption: A User-Centric Examination of Trust, Quality, and Intention to Reuse **Maria Bellaniar Ismiati, National Cheng Kung University, Taiwan**
13:45-14:00	EA526-A	From Risk Perception to Privacy Action in AI Interaction **Jianbo Wang, Pusan National University, South Korea**
14:00-14:15	EA075-A	Relational Justice as a Foundation for Ethical AI Integration in Education **Asa B. Stone, University of Nebraska-Lincoln, United States**
14:15-14:30	EA197	KKU IntelSphere: AI Governance by Design for Mitigating Privacy Risks in Higher Education **Kitt Tientanopajai, Wanida Kanarkard, Khon Kaen University, Thailand**
14:30-14:45	EA150	Ethical Oversight in Educational AI: From ethics as externality to internal AI design **John Francis Mukulu, Sophia University, Japan**
14:45-15:00	EA145	Public Policy generation: Enhancing AI Literacy in High School students **José Guillermo Guzmán Segura, Tecnologico de Monterrey, México**
15:00-15:15	EA192	Contextualizing AI Literacy: Developing a Competency Framework for K-12 Teachers in the Thai Education System **Anucha Somabut, Khon Kaen University, Thailand**
15:15-15:30	EA034	Symptobot: An AI Diagnostic Website Enhancing Psychological First Aid and Psychiatric Collection and Analysis of Symptoms **Melani L. Castillo, Polytechnic University of the Philippines – Sto. Tomas Campus, Philippines**
15:30-15:45	EA073	Implementing a PIP Education Framework to Humanize AI in Learning **Mark C. Stone, University of Nebraska-Lincoln, United States**
15:45-16:00	EA049	Assessing AI-Driven Psychological First Aid: A Case Study of SymptoBot Using ISO/IEC 25010 and Technology Acceptance Model (TAM) **Billy Ray M. Oldan, Polytechnic University of the Philippines – Sto Tomas Branch, Philippines**

September 28(Sunday) 13:30-16:00

(Meeting Room 3B | the 3rd floor)

Onsite Session 2: Educational Data Mining and Learning Analytics

Session Chair: Prof. Paulus Insap Santosa, Universitas Gadjah Mada, Indonesia

Time	Paper ID	Speech Title & Presenter
13:30-13:45	EA186	Understanding Pre-service Teachers' Artificial Intelligence Perceptions Through Text-Mining: A Mixed-Method Analysis of Language Patterns, Themes, and Sentiment **Hilary NG Ka Yan, Hong Kong Metropolitan University, Hong Kong SAR, China**
13:45-14:00	EA188	Leveraging Time-Series Foundational Model for Student Dropout Prediction: A Comparative Study **Niccolò Ciucci Colli, UnitelmaSapienza University of Rome, Italy**
14:00-14:15	EA015	Using Artificial Intelligence Algorithms to Determine Important Features for Academic Achievement of High-school Minority Students **Dang-Khoa Le-Huynh, Hsiuping University of Science and Technology, Taiwan**
14:15-14:30	EA113	Exploring Machine Learning Techniques to Predict and Enhance Preservice Teachers' Performance **Ann Kimhong, Prince of Songkla University, Thailand**
14:30-14:45	EA062	Improving Multiple Intelligence Learning Style Classification in E-Learning Using Feature Selection – Sequential Floating Forward Selection (SFFS) Technique **Paulus Insap Santosa, Universitas Gadjah Mada, Indonesia**
14:45-15:00	EA199	Explaining Student Inattention Detection from Visual Cues: A Comparative Machine Learning Study **Salem Alemaishat, Al Hussain Technical University, Jordan**
15:00-15:15	EA047-A	Analyzing Student Learning Behaviors in a Dialogue-Based Intelligent Tutoring System for Geometry Education Using Learning Analytics **Kai-Chih Pai, Tunghai University, Taiwan**
15:15-15:30	EA016	Using artificial intelligence algorithms to predict Vietnamese student success in English listening and reading exams **Thao-Trang Huynh-Cam, Chaoyang University of Technology, Taiwan; Dong Thap University, Vietnam**
15:30-15:45	EA068	Modeling Emotional Response to Feedback Based on its Affective Focus in STEM E-learning **Brenda Carranza-Rogerio, Ritsumeikan University, Japan**
15:45-16:00	EA216	AI-Driven Gamification for Cybersecurity Literacy in Higher Education **Roman M. De Angel, FEU Institute of Technology, Philippines**

September 28 (Sunday) 13:30-16:00

(Meeting Room 6B | the 6th floor)

Onsite Session 3: Educational Robotics, Intelligent Tutoring Systems, and Personalized Learning Support

Session Chair: Prof. Jordi Rabago, Tecnológico de Monterrey, León, Mexico

Time	Paper ID	Speech Title & Presenter
13:30-13:45	EA061-A	The RAG Chatbot for Natural Language Access to Structured Student Records **Chacharin Lertyosbordin, King Mongkut's University of Technology Thonburi, Thailand**
13:45-14:00	EA085	Evaluating RAG Chatbots for Inventory Management: The Effect of Response Polishing **Sorathon Chungsawanant, International School of Bangkok, Thailand**
14:00-14:15	EA026	Developing a Contextual Framework for Integrating Artificial Intelligence-Driven Educational Robotics in South African Schools **Omojokun Gabriel Aju, University of South Africa, South Africa**
14:15-14:30	EA059	Comparative Analysis of Chatbot Performance Using Different Word Embedding Techniques for Student Query Response **Andre M. Tuazon, University of the Philippines Los Baños, Philippines**
14:30-14:45	EA058-A	Transforming Online Business Education through AI Faculty Avatars and AI Assisted Learning Design **Nai Li, Peter Atkinson Atkinson, Imperial College London, UK**
14:45-15:00	EA077	A GenAI-Powered Feedback System for Automated Short-Answer Assessment in Education **Pauli Lai, The Hong Kong Polytechnic University, Hong Kong, China**
15:00-15:15	EA125	Adopting AI-Automated Feedback in Academic Writing: Insights from English Majors Using Grammarly **Toan Bao Nguyen, FPT University, Viet Nam**
15:15-15:30	EA123	The Dilemma of Academic Writing in the AI Era: Technological Empowerment and the Tension of Regulation — A Topic Modeling Study Based on Xiaohongshu User Discussions **Chuhan Zhong, Tongji University, China**
15:30-15:45	EA030-A	An Analysis of Learning Behaviors and Patterns Among Good and Poor Readers: A Story Grammar Instruction with Intelligent Tutoring System **Chen-Huei Liao, National Taichung University of Education, Taiwan**
15:45-16:00	EA208	Leveraging Microsoft Copilot to Generate Instructional Content for Social Engineering Awareness in Digital Learning Environments **Juan Paulo H. Magcuyao, FEU Institute of Technology, Philippines**

September 28 (Sunday) 13:30-15:45

(Meeting Room 6C | the 6th floor)

Onsite Session 4: Immersive Learning Technology and Gamified Learning

Session Chair: Asst. Prof. Ronel F. Ramos, FEU Institute of Technology, Philippines

Time	Paper ID	Speech Title & Presenter
13:30-13:45	EA028	Virtual Reality-Based Learning Systems in Vocational Education and Training: A Systematic and Bibliometric Review Toward Future-Oriented Learning Environments **Roudlotus Sholikhah, Universitas Negeri Yogyakarta, Indonesia**
13:45-14:00	EA033	Augmented Reality Media Integrated with the Experiential Learning Model for Enhanced Scientific Literacy **DWI AYU NURFA'IZAH, University State of Yogyakarta, Indonesia**
14:00-14:15	EA174	Transforming Pharmacy Education: The Role of VR and Generative AI in Developing Consultation Competence **Shreena Joshi Pradhan, University of Manchester, UK**
14:15-14:30	EA064	From Play to Proficiency: Investigating the Effectiveness of Digital Game-Based Learning in Junior High School Vocabulary Development **Miranti, Universitas Negeri Yogyakarta, Indonesia**
14:30-14:45	EA139	Design and Development of a Gamified Web Platform to Enhance Design-Based Digital Maker Skills in Thai FabLabs **Monamorn Precharattana, Institute for Innovative Learning, Mahidol University, Thailand**
14:45-15:00	EA155	CyberSAFE: A Gamified Web Platform with Analytics to Promote Cybersecurity Literacy Among IT Students **Alfredo L. Calimbo, La Consolacion University Philippines, Philippines**
15:00-15:15	EA180	Allie's Misadventures: Policies Sound Ridiculously Close to Fallacies (A 3D single-player action-adventure game that teaches defenses against false arguments and disinformation) **Ronel F. Ramos, FEU Institute of Technology, Philippines**
15:15-15:30	EA514-A	Gamifying Self-Regulated Learning with Virtual Rewards: The Perspective of Cognitive Evaluation Theory **Dai Qiuhui, Guangxi University, China**
15:30-15:45	EA027	Utilizing Haptic Interaction for Learning Enhancement - Exploring the Educational Applications of Infrared Sensor Frames **Yuki Kamiya, Gifu City Women's College, Japan**

September 28 (Sunday) 16:15-18:00

(Meeting Room 3A | the 3rd floor)

Onsite Session 5: Generative AI and Large Language Models in Education

Session Chair: Assoc. Prof. Nobuyuki Sugio, Hokkaido University of Science, Japan

Time	Paper ID	Speech Title & Presenter
16:15-16:30	EA128	To Use or Not to Use? Investigating Vietnamese Students' Adoption of ChatGPT for Learning with the Theory of Planned Behavior Lens **Kien Trung Nguyen, FPT University, Viet Nam**
16:30-16:45	EA157	Latvian Teachers Generative AI Readiness: A Mixed-Methods Study Using the Technology Readiness Index **Evija Mirķe, Riga Technical University, Latvia**
16:45-17:00	EA207	Faculty and Staff Education Program on Generative AI **Nobuyuki Sugio Hokkaido University of Science, Japan**
17:00-17:15	EA206	Harnessing Large Language Models for Personalized Education: Opportunities, Challenges, and Implications for SDG 4 **Ronel F. Ramos, FEU Institute of Technology, Philippines**
17:15-17:30	EA096	ChatGPT as an Early-Stage Design Tool in Architectural Education: Pedagogical Uses, Constraints, and Implications **Joanafel M. Mateo, National University Philippines, Philippines**
17:30-17:45	EA118	Open AI-Chat GPT as Teacher Assistant: Re-evaluating Generative Text AI as A Personalised Learning Agency in Indonesian Vocational Schools **Adhitya Amarulloh, Surabaya State University, Indonesia**
17:45-18:00	EA140	Evaluating an AI-powered Platform for Generating Instructional Materials on Mathematical Modelling of Direct Variation **Chung Kwan Lo, The Education University of Hong Kong, China**
18:00-18:15	EA072-A	Reimagining AI's Role in Education Through a Regenerative A **Mark C. Stone, University of Nebraska-Lincoln, United States**
18:15-18:30	EA060	Evaluating the Gemma 3 (1B) Lightweight Language Model on Thai Elementary Science Exams **Thanakorn Iamruttanawong, Bangkok Christian College, Thailand**

September 28 (Sunday) 16:15-18:30

(Meeting Room 3B | the 3rd floor)

Onsite Session 6: AI-Enabled STEM and Culturally-Responsive Education

Session Chair:

Time	Paper ID	Speech Title & Presenter
16:15-16:30	EA219	Revisiting LLMs for Mathematics Education: Technical Advances, Evidence, and Human-Centered Integration **Yancheng Zhang, The Education University of Hong Kong, China**
16:30-16:45	EA127	The Application of Artificial Intelligence Technology in Early Childhood Numeracy: Systematic Literature Review **Vena Yuliana, Universitas Pendidikan Indonesia, Indonesia**
16:45-17:00	EA031	The Role of Artificial Intelligence in Science Education: Enhancing Student Engagement and Preparing the Foundations for Future Education through Digital Literacy **Thoriqi Firdaus, Yogyakarta State University, Indonesia**
17:00-17:15	EA024	Exploring the Role of AI in Transforming Programming Education at Universities: Qualitative and Quantitative Insights **Allen Y. Chang, Chinese Culture University, Taiwan**
17:15-17:30	EA146	Robotic Arm Control System based on ROS and MoveIt: A Practical Educational Approach **Yifan Zhang, Sophia University, Japan**
17:30-17:45	EA1010	Exploration of the Graduate Student Innovation Ability Cultivation Model Based on Modern Sensor Technology Course **Meiyan Zhang, The Hong Kong Polytechnic University, China**
17:45-18:00	EA032	Multiple Treatments Causal Effects in Mathematics Education **Tomoko Nagai, International University of Health and Welfare, Japan**
18:00-18:15	EA017	The Adoption of Artificial Intelligence for Culturally Responsive Teaching and Pedagogy in South Africa **Omojokun Gabriel Aju, University of South Africa, South Africa**
18:15-18:30	EA057	Digital Learning Module Integrating Local Wisdom and Inquiry-Based Approaches: Enhancing Critical Thinking and Cultural Awareness **Tia Sarawati, University State of Yogyakarta, Indonesia**

September 28 (Sunday) 16:15-18:30

(Meeting Room 6B | the 6th floor)

Onsite Session 7: AI-Driven Learning Innovation and Digital Teaching Practice

Session Chair:

Time	Paper ID	Speech Title & Presenter
16:15-16:30	EA112	Tracking The Research Of Writing Learning Models In The Digital Age: Trends, Collaboration, And Innovation **Risnawati Sofia, Universitas Pendidikan Indonesia, Indonesia**
16:30-16:45	EA036	EFL Undergraduates' Perceptions of Factors Affecting Concentration in Online Learning **Toan Bao Nguyen, FPT University, Viet Nam**
16:45-17:00	EA129	Unlocked Learning: How Educators Navigate AI in Open Education Spaces **Abdelhak Senadjki, Universiti Tunku Abdul Rahman, Malaysia**
17:00-17:15	EA151	Web-based application for 3D printing visualization of mathematical surfaces in education **Pongsakorn Kaewcholkram, Prince of Songkla University, Surat Thani Campus, Thailand**
17:15-17:30	EA169	Influence of an AI Learning System on University Students' Learning Patterns: A Longitudinal Study **Chao Xu, Cambridge University, UK**
17:30-17:45	EA187-A	Artificial Intelligence Learning Tools to Empower Higher-Order Thinking Skills **Chih-Hung Wu, National Taichung University of Education, Taiwan**
17:45-18:00	EA042	Effects of Using Chatgpt in English Language Learning through Vietnamese Undergraduate Students' Lenses **Pham Minh Ngoc An, FPT University, Viet Nam**
18:00-18:15	EA056	AI-Assisted Craft Education: The Impact of Integrating Cloisonné Modules with Image Generation on Student Learning Outcomes **Zih-Ci Liang, Department of Industrial Design National Taipei University of Technology, Taipei, Taiwan**
18:15-18:30	EA1006	Smart Learning Environment Design: AI Enhanced Drone Photogrammetry Systems for Participatory Architectural Education **Jordi Rabago, INSTITUTO TECNOLOGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY (ITESM), Mexico**

September 28 (Sunday) 16:15-18:15

(Meeting Room 6C | the 6th floor)

Onsite Session 8: Management Information Systems and Data-Driven Decision Management

Session Chair:

Time	Paper ID	Speech Title & Presenter
16:15-16:30	EA218	From Functionality to Adoption: User Experience Evaluation of UM REX Research Information System Using UEQ+ **Ilham Mulya Putra Pradana, Universitas Negeri Malang, Indonesia**
16:30-16:45	EA196	Smart Scheduling for Administrative Excellence: A Hybrid AI-Human Approach to Calendar Management **Arisa Jirathachanon, Khon, Kaen University, Thailand**
16:45-17:00	EA2001	Strategic IT Outsourcing: A Capability-Driven Perspective **Bongsoon Cho, Sogang University, Republic of Korea**
17:00-17:15	EA507-A	From Captive Centers to Global Integration: Evolving Strategies in IT Nearshoring and Offshoring among Large German Enterprises **Markus Westner, OTH Regensburg, Germany**
17:15-17:30	EA528	Data-Driven Decision Support for Supplier Selection in the Cleanroom Garment Industry: A Hybrid AHP-TOPSIS Approach **Lakkana Ruekkasaem, Thammasat University, Thailand**
17:30-17:45	EA516	Factors Influencing the Perceived Quality of Railway Services in Thailand using the Application of Statistical Analysis Principles **Rattanaporn Kasemsri, School of Civil Engineering, Institute of Engineering, Thailand**
17:45-18:00	EA519-A	Subsidy modes selection and pricing strategies for platform supply chain: From the brand-differentiated perspective **Liu Jie, Shanghai International Studies University, China**
18:00-18:15	EA138	Dual-Attention Graph Neural Networks for Spatio-Temporal Crime Forecasting and Patrol Optimization **Mudit Srivastava, SRM Institute of Science and Technology, Chennai, India**

PARALLEL ONLINE SESSIONS

September 29 (Monday) 09:00-11:30
(ZOOM A: 890 3355 0556; Link: https://us02web.zoom.us/j/89033550556)
Online Session 1: Technical Architectures and Assessment Methods in Educational AI
Session Chair:

Time	Paper ID	Speech Title & Presenter
09:00-09:15	EA213-A	Digital Learning Games for Preschoolers: How AI Chatbots Can Support Early Language **Wenqi Chu, Carleton University, Canada**
09:15-09:30	EA221	Evaluating the Performance of AI Text Detectors, Few-Shot and Chain-of-Thought Prompting Using DeepSeek-Generated Text **Alshammari, Hulayyil, University of Missouri-Columbia, USA**
09:30-09:45	EA051	A supervised AI agent using Azure to enhance student learning and facilitate better ethos **Sai Kiran Mukkavilli, Dhrumilkumar Patel, Georgia Southwestern State University, USA**
09:45-10:00	EA087	Exploration of GenAI Story Writing Workshop in Chinese Universities--An Experiment **Qingbao Lan, DongGuan Open University, China**
10:00-10:15	EA095	Evaluation and Optimization of Classical Chinese Translation by Large Language Models **Ziyan YI, Hong Kong Shue Yan University, China**
10:15-10:30	EA104	AI-Driven Feedback Through SpeakTalk: Supporting EFL Speaking Skill Development in Higher Education **Siska Wati Dewi Purba, Universitas Pelita Harapan, Indonesia**
10:30-10:45	EA159	An Empirical Study on the Enhancement of English Writing Skills Among Art Major Students Through Artificial Intelligence Technology **Xueling Huang, Chengdu Neusoft University, China**
10:45-11:00	EA166	Design of an Intelligent Vocabulary System Based on Personalized Recommendation Algorithms **Yihan Mao, East China University of Science and Technology, China**
11:00-11:15	EA108	LightRAG-Enhanced Automated Question Generation System for Multi-Domain Educational Assessments **Denver G. Magtibay, SP Jain School of Global Management - Sydney, Philippines**
11:15-11:30	EA144	Design and Development of a RAG-Supported Chatbot Enhanced with RGC Prompt Method for Competency Assessment in Maritime Education **Furkan Eyup Kizilay, Istanbul Technical University, Turkey**

September 29 (Monday) 09:00-11:30

(ZOOM B: 899 5853 5044; Link: https://us02web.zoom.us/j/89958535044)

Online Session 2: AI in Subject Teaching and Vocational Education

Session Chair:

Time	Paper ID	Speech Title & Presenter
09:00-09:15	EA025	Course Specific AI TA: Implementation and Impact on Student Learning **Joon Park, Syracuse University, USA.**
09:15-09:30	EA014	DeepSeek Models in STEM Education: Capabilities, Applications, and Challenges **Fnu Neha, Kent State University, USA**
09:30-09:45	EA148	PASIVI: A methodological proposal to promote student disposition and engagement in clinical simulation environments **Araceli Hambleton-Fuentes, Tecnologico de Monterrey, Mexico**
09:45-10:00	EA176	Application of Multimodal Large Models in Accounting Vocational Education **Xi Chen, Shunde Polytechnic University, China**
10:00-10:15	EA178	Integrating AI and Immersive Technologies in Art Education: An Umbrella Review of Tools, Pedagogies, and Implications **Jingwen Li, Shanghai Normal University Tianhua College, China**
10:15-10:30	EA100	TAGGATMA: An AI-Powered E-Learning Platform for Informal and Personalized Vocational Training of Talibés in West Africa **Birahim BABOU, Polytechnic High Scool, Cheikh Anta Diop University, Senegal**
10:30-10:45	EA160	AI in Work-Based Learning: Understanding the Purposes and Effects of Intelligent Tools Among Student Interns **Rhiziel P. Manalese, Pampanga State University, Philippines**
10:45-11:00	EA165	Gaze Behavior and Expertise in Aviation: A Narrative Review of Eye-Tracking Metrics, Training Implications, and Future Directions for Enhancing Pilot Performance and Safety **Rongxuan Li, Civil Aviation Flight University of China, China**
11:00-11:15	EA063	Expanding beyond STEM: coding as a cross disciplinary tool for liberal arts Sacco **Margherita Maria, University of Turin, Italy**
11:15-11:30	EA038-A	EA038-A Smart Scheduling for Administrative Excellence: A Hybrid AI-Human Approach to Calendar Management **Wojciech Baluch, Jagiellonian University, Poland**

September 29 (Monday) 14:45-14:00

(ZOOM A: 890 3355 0556; Link: https://us02web.zoom.us/j/89033550556)

Online Session 3: Generative AI in Education: User Perceptions and Ethical Challenges

Session Chair:

Time	Paper ID	Speech Title & Presenter
11:45-12:00	EA161	Exploring Communication Literacy Levels and ChatGPT Usage Among Senior High School Students **Dayielle Menchie C. Fidel, National University Philippines, Philippines**
12:00-12:15	EA205	Utilizing ChatGPT in English Language Learning: Insights from EFL Students' Experiences **Ngoc Anh Bui, FPT University, Viet Nam**
12:15-12:30	EA167	Athletes' Perceptions and Intentions to Use ChatGPT for Workout Plans **Erick Voltaire P. Tabing, National University Philippines, Philippines**
12:30-12:45	EA194	Attitudes Towards the Role of Artificial Intelligence Among Pre-Service Elementary School Teachers: The Moderating Role of Their Self-Directed Learning **Binbin Wu, Shanghai Normal University, China**
14:45-13:00	EA137	Information, Computer, and Technological Literacy Among Tertiary-Level Students and Their Usage of AI Chatbots **Leona Lisa D. De Jesus, National University Philippines, Philippines**
13:00-13:15	EA115	Plagiarism or Productivity? Students Moral Disengagement and Behavioral Intentions to Use ChatGPT in Academic Writing **Rhiziel P. Manalese, Pampanga State University, Philippines**
13:15-13:30	EA084	Ethical Concerns over AI Learning in Higher Education: A Survey of Curriculum Coverage **Jamiur Rahaman, International Islamic University Malaysia, Malaysia**
13:30-13:45	EA131	Behavioral Intent, Usage, and Misuse of AI Chatbots among College Students **Patricia Mae O. Lacanilao, National University, Philippines**
13:35-14:00	EA103	Teachers' Perception of Using DeepSeek vs. ChatGPT in Designing Lesson Plans **Siska Wati Dewi Purba, Universitas Pelita Harapan, Indonesia**

September 29 (Monday) 11:45-14:00

(ZOOM A: 899 5853 5044; Link: https://us02web.zoom.us/j/89958535044)

Online Session 4: Data-Driven Educational Research and Business Analytics

Session Chair:

Time	Paper ID	Speech Title & Presenter
11:45-12:00	EA195	A Prediction Method for Scientific Creativity Based on Writing Behavior Sequence Pattern Analysis **Baoying Xu, South China Normal University, China**
12:00-12:15	EA152	A hybrid Model based on Convolution Neural Network and Attention Mechanism for Student Grade Prediction **Jiayi Zhou, Baoji University of Arts and Sciences, China**
12:15-12:30	EA1008	A Score Prediction Model Based on Improved Attention Mechanism under Human-Computer Collaboration and Educational Implication **Xue Li, Rocket Force Engineering University, China**
12:30-12:45	EA130	Enhancing High School Programming Education Through LLM-Based Hint Generation **Marios Chrysopoulos, Democritus University of Thrace, Greece**
14:45-13:00	EA109	Research on IRT Model Optimization Based on Deep Learning **Yueping Chen, Guangdong University of Education, China**
13:00-13:15	EA508-A	"Whitewash" or "restraint": How ESG performance affects controlling shareholders' tunnelling **Jing Zhang, Chongqing University, China**
13:15-13:30	EA509	Cybersecurity Risk Practices Using Business Analytics: A Traditional Literature Review **Muhammad Afif Fathullah, Multimedia University, Malaysia**
13:30-13:45	EA529-A	A Study on the Pattern Analysis of SMEs and Startups' Business Difficulty Counseling Q&A Data and the Implementation of an FAQ Auto-response System: Focusing on Q&A Cases from the Business Support Group of the Ministry of SMEs and Startups **SeokCheol Lee, Sogang University, Republic of Korea**
13:45-14:00	EA510-A	How Industrial Internet Platforms Empower the Digital Transformation of Manufacturing Enterprises: Evidence from a Quasi-Natural Experiment in China **Hui Zheng, Chongqing University, China**

Delegate List

Diane Cunliffe	Laval University, Canada
Marijan Mark Salopek	Thompson Rivers University, Canada
Cath Rau	Te Kopuku High School, New Zealand
Hemi Rau	Te Kopuku High School, New Zealand
Nattawat Panyapakdeewong	Bangkok Christian College, Thailand
Panyakorn Singhadoung	The Demonstration School of Bansomdejchaopraya Rajabhat University, Thailand
Pimchanok Hathakornvijit	Khon Kaen Wittayayon School, Thailand
Thakorn Jearaborival	Assumption College, Thailand
Puvasit Aphisinrungro	King Mongkut's International Demonstration School, Thailand
Sirin Liukasemsarn	Darunsikkhalai School for Innovative Learning, Thailand
Ariel P. Tuazon	Polytechnic University of the Philippines, Philippines
Jitusa Khanthong	Srinakharinwirot University, Thailand
Allaheg Adel Hussain A	King Fahad Security College, Saudi Arabia
Almanie Saeed Mushahhin S	King Fahad Security College, Saudi Arabia

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