2025 13th International Conference on Information and Education Technology
(ICIET 2025)

With workshop

2025 2nd International Conference on Innovative Education and Learning Resources (IELR 2025)

Fukuyama, Japan, | April 18-20, 2025

Co-Sponsored by

福山大学 FUKUYAMA UNIVERSITY   ◆IEEE

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Venue: The Promotion Center for Social Cooperation, Fukuyama University, Fukuyama, Japan
Add: 〒720-0061 広島県福山市丸之内 1 丁目 2 番 40 号
Web:https://www.fukuyama-u.ac.jp/research/scpc/
TEL: 084-932-6300

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WELCOME MESSAGE

Dear all,

We are delighted to welcome you to these conferences 2025 13th International Conference on Information and Education Technology (ICIET 2025), along with the workshop 2025 2nd International Conference on Innovative Education and Learning Resources (IELR 2025) to be held in Fukuyama, Japan, during April 18-20, 2025, ICIET 2025 is co-sponsored by Fukuyama University and IEEE, co-hosted by Shonan Institute of Technology.

The objective of the conference is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students to share up-to-date research results. We are confident that during this time you will get the theoretical grounding, practical knowledge, and personal contacts that will help you build a long term, profitable and sustainable communication among researchers and practitioners in the related scientific areas.

This year's program is composed of 3 keynote speeches delivered respectively by Prof. Maiga Chang, from Athabasca University, Canada; Prof. Shaoying Liu, from East China Normal University, China and Prof. HEW, Timothy K. F., from The University of Hong Kong, Hong Kong, China; 4 invited speeches delivered respectively by Prof. Wernhuar Tarng, from National Tsing Hua University, Hsinchu, Taiwan; Prof. Jon-Chao Hong, from National Taiwan Normal University, Taipei, Taiwan; Prof. Lilian Li, from Zayed University, UAE and Dr Mariam Mohamad, from Universiti Sains Malaysia, Malaysia; 12 onsite sessions and 5 online oral session. We would like to express our gratitude to all the speakers in these conferences. Special thanks to all of our committee members, all the reviewers, the attendees for your active participation. We hope the conferences will be proved to be intellectually stimulating to us all. Finally, we wish you very successful conferences!

Conference Organizing Committee

ICIET 2025	IELR 2025
Ms. Ching Cao	Mrs. Yumiko
Email: icietconf@vip.163.com	Email: ielr_conf@outlook.com

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GENERAL INFORMATION

A Conference Venue

Venue: The Promotion Center for Social Cooperation, Fukuyama University, Fukuyama, Japan

Add: 〒720-0061 広島県福山市丸之内 1 丁目 2 番 40 号

Web: https://www.fukuyama-u.ac.jp/research/scpc/

TEL: 084-932-6300

About transportation: ・JR 福山駅北口から徒歩 2 分 (2 minutes walk from JR Fukuyama Station North Exit)

B On-site Registration

Registration desk→ Inform the staff of your paper ID→ Sign-in→ Claim your conference kits.

C Devices Provided by the Organizer

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

D Materials Provided by the Presenter

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

Presentation Language: English only.

E Duration of Each Presentation

Keynote Speech: 40min, including Q&A.

Oral Session: 15min, including Q&A.

Invited Talk: 25min, including Q&A.

F Notice

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

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

G Zoom Meeting

	Meeting ID	Link
zoom ✧ Conference Banner ✧ Zoom Background	Room A: 875 5031 0886	https://us02web.zoom.us/j/87550310886
	Room B: 884 2995 6586	https://us02web.zoom.us/j/88429956586
	Room C: 890 9918 1661	https://us02web.zoom.us/j/89099181661

Note:

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,

Author/Presenter: Paper ID_Name < T001_Ching Cao >

Delegate: Delegate_Name < Delegate_ Ching Cao >

AGENDA OVERVIEW

Session Time	Friday, April 18, 2025 | Pre-Test/Registration (UTC+9)	Venue
10:00-12:00 13:00-17:00	On-site Registration	The entrance floor; The Promotion Center for Social Cooperation, Fukuyama University, Fukuyama, Japan
14:00-17:00	Zoom Pre-test, See below:	Room A: 875 5031 0886
14:00-14:30	T040, T181, T259, T054, T155, T167, T196, T038, T136, T218, T171	
14:30-15:00	T106, T103, T194, T258, T267, T268&T248, T269, T249, T186, T074	
15:00-15:30	T059, T266, T182, T119, T701-A, T061, T113, T247, T023, T657-A	
15:30-16:00	Invited Talk-Mariam Mohamad, T185, T052, T085, T166, T057, T224, T608	
16:00-16:30	T244, T035-A, T097, T222, T243-A, T229, T098, T234, T623, T250-A	
16:30-17:00	For other online participants, includes but not limited to keynote speakers, session chairs, committee members, delegates, etc.	

Presenters are required to join the rehearsal in Zoom on Friday, April 18, 2025. Duration: 2~3min apiece.
Feel free to leave after you finish the test.

Session Time	Saturday, April 19, 2025 (UTC+9) | Plenary Meeting	
Host- TBA		
09:00-09:10	*Welcome Speech* **President Yutaka Otsuka,** Fukuyama University, Japan	Room: 903<9F> Room A: 875 5031 0886
09:10-09:50	*Keynote Speech I* Title: Debates, Experiences and Solutions of Using Generative AI for Learning and Teaching **Prof. Maiga Chang,** Athabasca University, Canada *(Onsite)*	
09:50-10:30	*Keynote Speech II* Title: Creativity-Driven Education for Cultivating Student Innovation: Importance, Techniques, and Challenges **Prof. Shaoying Liu,** East China Normal University, China *(Onsite)*	
10:30-11:00	Group Photo & Coffee Break (9F)	
11:00-11:40	*Keynote Speech III* Title: Gamification and Student Engagement: Insights from a Decade of Research **Prof. HEW, Timothy K. F.,** The University of Hong Kong, Hong Kong, China *(Online)*	
11:40-12:05	*Invited Speech I* Title: Integrating STEAM into Computation Thinking: Comparing participants' self-efficacy, altruistic behavior, flow experience and cognitive load of calculation by gender **Prof. Jon-Chao Hong,** National Taiwan Normal University, Taipei, Taiwan *(Onsite)*	
12:05-13:10	Lunch Time: Room: 9C <9F>	

AGENDA OVERVIEW

Saturday, April 19, 2025 (UTC+9) | Parallel Session (Onsite)					
Room 903<9F>	**Room 802<8F>**	**Room 803<8F>**	**Room 804<8F>**	**Room 705<7F>**	**Room 706<7F>**
13:10-15:40					
Onsite Session 1 Generative AI in Language Education and Content Creation Invited Talk- Wernhuar Tarng, T010, T037, T047-A, T049-A, T090-A, T174, T210-A, T654	**Onsite Session 2** Digital Literacy and Equity in Global Education Invited Talk- Lilian Li, T029, T135-A, T183, T240-A, T637, T644, T655-A, T004-A	**Onsite Session 3** Data Analytics and AI-Driven Learning Systems T032, T048-A, T078, T114, T211-A, T212-A, T610-A, T110, T160, T161	**Onsite Session 4** AI-Enhanced Tools and Digital Innovations in STEM Education T055, T069, T079, T064, T104, T133, T147, T071-A, T086-A, T075	**Onsite Session 5** Teacher Training and Sustainable Pedagogy T027-A, T043, T081-A, T198-A, T221-A, T233-A, T609, T624-A, T656-A	**Onsite Session 6** Adaptive Tools for Multilingual and Special Education T149-A, T095, T012, T016-A, T105, T260, T261, T177, T232-A, T125-A
16:00-18:15					
Onsite Session 7 AI Ethics and Academic Governance T031-A, T034, T068, T072, T148-A, T173, T606-A, T627	**Onsite Session 8** Interactive VR/AR for STEM and Cognitive Development T050, T062, T127-A, T179, T251, T645, T646, T651,T080	**Onsite Session 9** Cybersecurity, Authentic Assessment and EdTech Infrastructure T025, T083, T187, T216-A, T231-A, T649, T604-A, T109	**Onsite Session 10** Social-Emotional Learning and Classroom Climate T051, T077-A, T1001, T101, T102, T145, T184, T631, T639	**Onsite Session 11** Gamification and Metacognitive Skill Enhancement T056-A, T108, T124-A, T151-A, T138, T175, T607-A, T603-A T107	**Onsite Session 12** Curriculum Innovation and Futuristic Educational Models T017-A, T058, T060, T067, T172, T195, T615, T152-A, T150-A
18:30-20:30 Banquet Dinner					

Venue: Fukuyama Castle	Host: TBA
	1. Congratulatory Speech: TBA
	
	2. ICIET 2025 Awarding Ceremony
	    ◇ Best Student Paper Award
	    ◇ Best Paper Award
	    ◇ Best Reviewer Award
	
	3. Toast: TBA
	
	4. Conference Promotion
	
	NOTE: We are planning to have the banquet at the Fukuyama Castle. It is about 10 minutes from the conference venue to the Castle by walking. We will go together after the Parallel Session finished.

Saturday, April 19, 2025 (UTC+9) | Parallel Session (Online)

Room A: 875 5031 0886

13:15-16:00	**Online Session 1** Emerging Technologies in Educational Applications T040, T181, T259, T054, T155, T167, T196, T038, T136, T218, T171
16:15-18:45	**Online Session 2** Learning Analytics and Adaptive Educational Systems T106, T103, T194, T258, T267, T268, T269, T249, T186, T074

Sunday, April 20, 2025 (UTC+9) | Parallel Session (Online)

Room A: 875 5031 0886	Room B: 884 2995 6586	Room C: 890 9918 1661
09:00-11:45		
Online Session 3 AI-Driven Pedagogical Innovations and Human-AI Collaboration T059, T266, T182, T119, T701-A, T061, T113, T247, T248, T023, T657-A	**Online Session 4** Digital Education Equity and Policy-Curriculum Innovation Invited Talk-Mariam Mohamad, T185, T052, T085, T166, T057, T224, T608	**Online Session 5** Technology-Enhanced Learning Models and Digital Pedagogy T244, T035-A, T097, T222. T243-A, T229, T098, T234, T623, T250-A

INTRODUCTION OF KEYNOTE SPEAKER

Prof. Maiga Chang

Athabasca University, Canada

Debates, Experiences and Solutions of Using Generative AI for Learning and Teaching

Abstract: While the generative AI (e.g., ChatGPT) is now well-known and popular with the public, the dataset used for training the generative AI is currently too broad to be helpful for teaching and learning. Moreover, the dataset used for training the generative AI has not been entirely vetted by experts -- for instance, 60% of the dataset used for training the GPT model comes from the Internet directly. This has important, understudied implications for both educators and learners who might wish to use generative AI tools. I will start this talk by summarizing the opinions and perceptions that educationists and researchers have on Generative AI's deficiencies, found failures, challenges and risks. I will explain and show audience in the second part of the talk how non-tech savvy teachers can easily adopt and use Large Language Models like (Google Gemini and OpenAI GPT) with Centralized Online Prompt System for Education (COPSE) for their courses to design and create pedagogical agents who can help their students learning and practicing. Last but not least, many teachers might have concerns about their students using ChatGPT to write assignments instead of doing so on their own. At the end of this talk, if still have time I will introduce our research group's latest research, Authorship Forensics, that can correctly distinguish the works generated by ChatGPT 3.5, ChatGPT 4, and human authors with high precision rate (i.e., not mis-pointing finger on human authors and incorrectly labelling their works as AI-written ones) 98.06% and F0.5 score 0.96 in our preliminary study.

Biography: Dr. Maiga Chang is Associate Dean, Research & Innovation, and Full Professor at Faculty of Science and Technology, Athabasca University, Canada. He is also Honorary Chair Professor at Multidisciplinary Academic Research Center, National Dong Hwa University, Taiwan. Dr. Chang is IEEE Senior Member and has been appointed as an IEEE Computer Society Distinguished Visitor for 2023 to 2025. He is also received Distinguished Researcher Award from Asia Pacific Society on Computers in Education (APSCE) in 2022.

Dr. Chang is now Vice President (2022~) of International Association of Smart Learning Environments (IASLE) and editors-in-chief (2019~) of Journal of Educational Technology & Society (Open Access SSCI in Quartile Q1 with rank 22/756 in Education & Educational Research category by Journal Impact Factor 4.595), editor-in-chief (2014~) of International Journal of Distance Education Technologies (Open Access ESCI in Quartile Q1 with rank 64/756 in Education & Educational Research category by Journal Impact Factor 3.3, SCOPUS, EI), and editor-in-chief (2020~) of Bulletin of Technical Committee on Learning Technology (Open Access ESCI). He is also an Executive Committee member of Asia-Pacific Society for Computers in Education (2017~2024, APSCE) and Global Chinese Society for Computing in Education (2016~2025, GCSCE), and Chair (2021~) of Educational Activities Committee, IEEE Northern Canada Section. Dr. Chang is helping as a Steering Committee member (2020~) for International Conference on Intelligent Tutoring Systems (ITS).

Dr. Chang has given more than 160 talks and lectures in different events; He also has (co-)authored more than 260 book chapters, journal and international conference papers. He is an IEEE member since 1996 and also a member of ACM (2001-2017), AAAI (since 2001-2017), INNS (2004-2018), and Phi Tau Phi Scholastic Honor Society. His current research mainly focus on artificial intelligence; natural language processing; learning behaviour analysis; learning analytics and academic analytics; game-based learning, training and assessment; intelligent agent technology; educational data mining; computational intelligence; health informatics and healthcare technology, etc.

INTRODUCTION OF KEYNOTE SPEAKER

Prof. Shaoying Liu

East China Normal University, China

Creativity-Driven Education for Cultivating Student Innovation: Importance, Techniques, and Challenges

Abstract: With the increasing demand for high-quality, cutting-edge technologies—particularly in computer science and artificial intelligence—fostering innovation in students is more critical than ever. This talk will begin by introducing the core principles of creativity-driven education and highlight its growing significance today. I will then elaborate on key techniques derived from my own experience for cultivating student innovation, focusing on methods that align with educational goals. Finally, I will address the challenges we face in advancing this approach and propose directions for future research and pedagogical development.

Biography: Shaoying Liu is a Professor in Software Engineering Institute at East China Normal University, IEEE Fellow, BCS Fellow, and AAIA Fellow. He received the Ph.D in Computer Science from the University of Manchester, U.K in 1992, and has experienced research and education at 10 universities in China, the U.K., and Japan. His research interests include Formal Engineering Methods, Specification-based Program Inspection and Testing, Testing-Based Formal Verification (TBFV), Human-Machine Pair Programming (HMPP), and Dependable Computing.

Liu is a pioneer and leading researcher in Formal Engineering Methods for Software Development. He founded the ICFEM conference in 1997, SOFL+MVSL workshop in 2012, and SFPVV symposium in 2024, respectively. He designed the SOFL (Structured Object-Oriented Formal Language) specification language and method, authored two books entitled "Formal Engineering for Industrial Software Development" and "Agile-SOFL: Agile Formal Engineering Method", respectively, both published by Springer, more than 15 edited books, and over 300 papers in refereed journals and international conferences. He has received many awards, including 2020 and 2022 Distinguished Research Awards from IPSJ/SIGSE respectively, the "20 Year ICFEM Impact Award" from ICFEM 2018, "IEEE Reliability Society Japan Joint Chapter 2016 Best Paper Award", and "Outstanding Paper Award" from ICECCS'96. In recent years, he has served as the General Chair of several international conferences, including ICFEM 2024 and ICECCS 2022.

INTRODUCTION OF KEYNOTE SPEAKER

Prof. HEW, Timothy K. F.

The University of Hong Kong, Hong Kong, China

Gamification and Student Engagement: Insights from a Decade of Research

Abstract: Student engagement is frequently viewed as a key goal in education due to its association with improved learning outcomes, heightened motivation, and constructive learning behaviors. However, maintaining student engagement, particularly in online learning activities, can be quite challenging. For the past decade, I have dedicated my research efforts to exploring gamification as a strategy to enhance student engagement in both blended and online learning settings. Although gamification has become widely implemented, it has also faced criticism and skepticism, including being dismissed by some as ineffective and hogwash. In this presentation, I will share the primary insights gained from my research on gamification, as well as suggest potential avenues for future investigation.

Biography: Professor Timothy HEW is a Full Professor of Education at the University of Hong Kong (HKU). He holds a Ph.D. in Instructional Systems Technology from Indiana University Bloomington, where he developed a strong foundation in the design and implementation of educational technologies. Prior to joining HKU, Professor Hew served as an Assistant Professor at Nanyang Technological University in Singapore. His research primarily focuses on optimizing student engagement in online activities. Since 2015, Professor Hew has been recognized as a World Top 1% scholar in his field by Essential Science Indicators, based on Web of Science indexed journal article citations, (http://hub.hku.hk/local/top1pc/top1pc.jsp). Throughout his career, Professor Hew has received over 50 types of recognitions and awards. Additionally, his commitment to education extends beyond research; he is an acclaimed educator who has influenced many students through his innovative teaching methods and mentorship. Notably, he was honored with the HKU Faculty of Education Outstanding Research Student Supervisor Award in 2020.

INTRODUCTION OF INIVITED SPEAKER

Prof. Jon-Chao Hong

National Taiwan Normal University, Taipei, Taiwan

Integrating STEAM into Computation Thinking: Comparing participants' self-efficacy, altruistic behavior, flow experience and cognitive load of calculation by gender

Abstract: Comput-Up was designed as a collaborative online board game for team members to move their flags on the board by applying their mathematical strategies and STEAM knowledge related to historical-cultural resorts in New Taipei City. To understand the difference in learners' cognitive and affective processes during game play, the study examined four aspects - "mathematical self-efficacy," "altruistic behavior," "flow experience," and "cognitive load"- across both genders. The study involved statistical analysis of 150 questionnaires completed by sixth-grade students who participated in a 40-minute session of Comput-Up. The results revealed that male students outperformed female students across all four variables, with the exception of cognitive load related to calculation during gameplay.

Biography: Jon-Chao Hong is currently working as a research professor at National Taiwan Normal University (NTNU). He organizes several creative technology contests to develop participants' hands-on skill and iSTEAM knowledge, such as PowerTech Contest to invite elementary, junior and senior high school students to produce miniatures models in the morning and using these to compete in the afternoon to ensure students' hands-on creation without parents or teachers' assistance. As the International Chairman of International Exhibition for Young Inventors (IEYI), he also promotes the innovation contest to cultivated students' inquiry and thinking attitude and ability of STEAM. He has organized 2025 International competition in Aug. 2024 which included teams from more than 20 countries with around 600 students in Taipei. Additionally, he organizes GoSTEAM to invite high school students to use 3D printers and razor wood cutting machines to design intellectual manufacturing. As the director of Digital Game-based Learning Laboratory (GBL), he has developed more than 20 Apps for learning domain knowledge as well as thinking skill, such as "Collaborative game for developing imagination and thinking skills in science learning. Additionally, his team has also developed VR in skill development, such as insect raising, butterfly catching, spatial ability development and so on. In addition, he has published a number of academic articles in international journals. In recent three years, he has more than 60 articles published on SSCI journals. He has received the Outstanding Research Prize from Ministry of Science and Technology in Taiwan. In 2022, 2023 and 2024, he was also ranked as the top 2% scientists rated by Stanford University, and in 2024 he was also ranked in the top 0.5% of all scholars worldwide in Education by ScholarGPS. He is also the editor-in-chief of International Journal of Information and Education Technology (IJIET).

INTRODUCTION OF INVITED SPEAKER

Prof. Wernhuar Tarng

National Tsing Hua University, Hsinchu, Taiwan

Analysis of Learning Effectiveness, Learning Motivation and Cogitative Load from the Application of Virtual Robots in Elementary School Spatial Concepts and Triangle Units

Abstract: This study explores various teaching methods for instructing elementary school students in spatial concepts, specifically focusing on spatial rotation, the coordinate plane, and the triangle unit, which encompasses learning outcomes related to triangles and angles. The study compares the effectiveness of an interactive virtual robotic arm learning system with traditional teaching approaches. Key aspects examined include students' learning outcomes, motivation, and cognitive load. Additionally, the study investigates students' perceptions of the interactive virtual robotic arm system. A quasiexperimental pretest-posttest design was employed, involving fourth-grade students from two classes at an elementary school in Hsinchu City. The experimental group, consisting of 30 students, received instruction using the interactive virtual robotic arm system, while the control group, also comprising 30 students, was taught using traditional methods. Both groups participated in two 80-minute instructional sessions. Pre- and post-tests were administered to assess spatial concepts and triangle unit achievement for both groups. After the experiment, students' learning motivation and cognitive load were evaluated. Furthermore, the experimental group completed a system satisfaction survey to assess their perceptions of the virtual robotic arm system.

Biography: Professor Wernhuar Tarng received his MS and PhD degrees in electrical and computer engineering from the State University of New York at Buffalo in 1987 and 1992, respectively. He is currently a professor in the Graduate Institute of Learning Sciences and Technologies at National Tsing Hua University, Taiwan, where he has made significant contributions to both research and teaching. His research focuses on the integration of virtual reality, augmented reality, and artificial intelligence in educational applications, particularly for teaching complex subjects such as nanotechnology, robotics, and semiconductor manufacturing processes.

INTRODUCTION OF INVITED SPEAKER

Prof. Lilian Li

Zayed University, UAE

Digital Divide in Higher Education

Abstract: The digital divide refers to the disparities in access to, use of, and outcomes from Information and Communications Technology (ICT) and has become a significant concern in higher education. Following the COVID-19 pandemic, there is increasing anxiety regarding the effects of rapid digitalization on inequalities in the learning process, particularly concerning the digital divide. The transition to online and remote learning has intensified these concerns. Despite the common belief that today's students, often labelled as 'digital natives,' have grown up fully engaged with digital technologies, the digital divide remains a substantial issue in higher education. This ongoing divide can be attributed to several factors, including misalignments in education policies, inadequate institutional infrastructure, varying levels of access to devices and internet connectivity, differences in digital literacy, and socioeconomic disparities. The invited speech will examine the existing research on the factors contributing to the digital divide, its implications for educational outcomes, and strategies for bridging this gap within the context of higher education. Additionally, the speech will discuss the emerging forms and levels of the divide to inform future research directions and policymaking.

Biography: Lilian currently serves as the Director of the Library and Learning Commons at Zayed University in the UAE, holding the rank of Professor in Practice. With over 20 years of experience in academic library leadership both in Canada and the Middle East, she combines her background in information systems, educational leadership, and educational technology to effectively navigate the digital transformation in higher education. Lilian is particularly skilled in areas such as digital and smart libraries, technology integration in curriculum development, and international higher education leadership.

INTRODUCTION OF INVITED SPEAKER

Dr Mariam Mohamad

Universiti Sains Malaysia, Malaysia

A Bibliometric Review of Mobile Assistive Technology Research for Dyslexic Children: Mapping the Landscape of a Decade

Abstract: Dyslexia, a prevalent neurodevelopmental disorder affecting reading and writing skills, poses significant challenges to educational attainment. In recent years, mobile assistive technologies have emerged as promising tools to support dyslexic children in their journey. Despite the increasing focus on mobile assistive technology for dyslexic children, a comprehensive overview of the research landscape is lacking. The field is characterized by a proliferation of studies, diverse methodologies, and an expanding knowledge base. This bibliometric review leverages advanced analytical tools, with a primary focus on the VOS viewer software, to conduct a comprehensive analysis of the literature spanning from 2014 to 2024. A carefully curated dataset, comprising research articles sourced from reputable databases, forms the basis of the analysis. Anticipated outcomes include visually rich maps depicting the citation networks and keyword co-occurrence patterns within the realm of mobile assistive technology for dyslexic children. We expect to identify key articles shaping the field, prominent clusters of research, and evolving trends. This bibliometric review aspires to contribute a panoramic view of the last decade's research landscape in mobile assistive technology for dyslexic children. The anticipated insights hold the potential to guide future research directions, technological innovations, and educational interventions, ultimately enhancing the support available to dyslexic children through mobile assistive technologies.

Biography: Dr Mariam Mohamad is a Senior Lecturer at Universiti Sains Malaysia, Penang Malaysia. Her research interest is in the field of mobile learning and mobile assistive technology. Dr Mariam was acknowledged as one of the pioneers from Malaysia in mobile learning research, in the book entitled Mobile Learning in Higher Education in the Asia-Pacific Region published by Springer. Her work also referred by UNESCO in the publication entitled; Turning on Mobile Learning: Illustrative Initiatives and Policy Implications. Dr. Mariam has extensive experience in disseminating her work internationally. She actively involves presenting her work in international conferences with ISI Web of Science and SCOPUS indexed status. She has shown her capability in her area as invited speakers. She was invited by UNESCO to present her work in Mobile Learning Week 2014 at UNESCO headquarters in Paris. She was also invited by 2nd International Conference on Education and Multimedia Technology (ICEMT 2018) to give her speech in Okinawa, Japan and 5th International Mobile Learning Festival (IMLF2018) in Singapore. In 2019, she was invited by 5th International Conference in Education (ICEDU2019) in Kuala Lumpur as a plenary speaker and forum panelist. She also attended 3rd International Conference on Education and Multimedia Technology (ICEMT 2019), in Nagoya, Japan as a plenary speaker. In 2020 she was invited as a keynote speaker for the 5th International Multidisciplinary Research Conference (IMRC 2020), in Philipines followed by another invitation as a keynote speaker in the 1 st International Conference on Education Science and Technology for Sustainable Development, in Philippines. In 2021, she contribute as the Keynote Speaker in TEL 2021 (International Conference on Education 2021), Plenary Speaker in ICSE 2021 (4th International Conference on Special Education) and also as Invited Speaker for ICEEL 2021 (International Conference on Education and E-learning). More information: https://www.iciet.org/invite.html

ONSITE SESSION 1

Onsite Session 1: Generative AI in Language Education and Content Creation	13:10-15:35
Chairperson: Prof. Wernhuar Tarng, National Tsing Hua University, Taiwan	Saturday, April 19, 2025 Room 903<9F>

13:10-13:35	Invited Talk	Analysis of Learning Effectiveness, Learning Motivation and Cogitative Load from the Application of Virtual Robots in Elementary School Spatial Concepts and Triangle Units *Wernhuar Tarng, National Tsing Hua University, Taiwan*
13:35-13:50	T010	Practical Impact of ChatGPTin Introduction to Computer Science Course: Exam Score and Real Learning Effectiveness *Chia-Hao Chiu, Soochow University, Taipei, Taiwan*
13:50-14:05	T037	Written by Human or ChatGPT – Authorship Forensics in the era of Generative AI *Robert Schmidt, Athabasca University, Canada*
14:05-14:20	T047-A	An Action Research on Leveraging AI-Assisted Technologies to Enhance EFL Speaking Proficiency and Self-Learning among Taiwanese Elementary Students *Kuan Hung, Chaoyang University of Technology, Taiwan*
14:20-14:35	T049-A	Analysis of Non-Native English-Speaking Advisors' and Students' Perceived Effectiveness and Perspectives on Using ChatGPT for Writing English Master's Theses *Hsu Pei Ching, Chaoyang University of Technology, Taiwan*
14:35-14:50	T090-A	Unlocking the Potential of ChatGPT to Enhance Task-Based EFL Oral Training: Applications, Effectiveness, and Perceptions of AI-Assisted Language Learning *Kate Tzu-Ching Chen, Chaoyang University of Technology, Taiwan*
14:50-15:05	T174	RISE: Rotational Introduction to Software and Engineering for Major Exploration and First-Year Success *Jordan Tewell, Sacred Heart University, United States*
15:05-15:20	T210-A	AI-Assisted Language Learning for Taiwanese Workers of Efficiency Analysis of English Proficiency Improvement *Ling-Tse Fan, Ming Chi University of Technology, Taiwan*
15:20-15:35	T654	Leveraging AI-Enhanced Technologies in Textbook Design: A Reconstruction for Facilitating Independent Learning in English Language Education *Siti Mualiyah, Universitas Negeri Yogyakarta, Indonesia*

ONSITE SESSION 2

Onsite Session 2: Digital Literacy and Equity in Global Education Chairperson: Prof. Lilian Li, Zayed University, UAE		**13:10-15:35** Saturday, April 19, 2025 Room 802<8F>

13:10-13:35	Invited Talk	Digital Divide in Higher Education *Lilian Li, Zayed University, UAE*
13:35-13:50	T029	Mobile Application Systematic Review with Respect to Learning Features in Supporting Learners with Epilepsy Disorders *Ika Qutsiati Utami, Graduate Institute of Network Learning Technology, National Central University, Taiwan*
13:50-14:05	T135-A	Gender difference of preschool pupils in using Digital Interactive Reading Pen *Yu-Ting Tu, National Taiwan Normal University, Taiwan*
14:05-14:20	T183	Digital Outcome Disparities Among Vietnamese University Students *Truong Thao Uyen, FPT University, Vietnam*
14:20-14:35	T240-A	Exploring student-level challenges in Information Communication Technology (ICT) course learning at Upper Secondary Education in Vientiane Province, Laos. *Finhxiaw VANHVILAI, Hiroshima University, Japan*
14:35-14:50	T637	Exploring Gender Representation in Children's Literature: A Systematic Literature Review on Educational Impact *Sheptiani Rusmaningtias, Universitas Negeri Yogyakarta, Indonesia*
14:50-15:05	T644	Enhancing Pedagogical Foundations: Awareness of Storytelling Skills in Preservice Teacher Education *Nur Eka Lestari, Yogyakarta State University, Indonesia*
15:05-15:20	T655-A	Preparing Educators for the Future Labor Market: The Role of Growth Mindset and Digital Skills *Yunita Ashari, Yogyakarta State University, Indonesia*
15:20-15:35	T004-A	Audiobooks to Enhance the Students' Reading Comprehension: A Literature Review *Asni Suryaningsih, Yogyakarta State University, Indonesia*

ONSITE SESSION 3

Onsite Session 3: Data Analytics and AI-Driven Learning Systems Chairperson: Asst. Prof. Osman Selvi, Fenerbahçe University, Turkey	**13:10-15:40** Saturday, April 19, 2025 Room 803<8F>

13:10-13:25 T032 Data-Driven Learning: Assessing the Use of Visualization Tools in the Classroom

Hiranya Sritart, Faculty of Allied Health Science, Thammasat University, Thailand

13:25-13:40 T048-A Preserving a Relational Data Model in Blockchain: Unlocking the Potential of Data Interoperability and Unveiling Its Promising Advantages

Osman Selvi, Fenerbahçe University, Turkey

13:40-13:55 T078 Investigating Secondary School Teachers' Acceptance of Artificial Intelligence in Education in Trinidad and Tobago: A UWI St Augustine Cross-Sectional Study

Shirdi Ali, The University of The West Indies, Trinidad & Tobago

13:55-14:10 T114 CMES: A Web-Based Course Material Evaluation System

Rhea N. Tortor, Mapua Malayan Colleges Laguna, Philippines

14:10-14:25 T211-A Machine Learning-Based Optimization of Warehouse Management and an Empirical Study

Ruo Pu Wang, Ming Chi University of Technology, Taiwan

14:25-14:40 T212-A Machine Learning-Based Root Cause Analysis for Enhancing Failure Diagnosis in Manufacturing Processes and an Empirical Study

Ming-Nan Tsai, Ming Chi University of Technology, Taiwan

14:40-14:55 T610-A An Explainable Big Data Platform for Learning Analytics: Enhancing Transparency and Personalization

Hao-Ting Pai, National Pingtung University, Taiwan

14:55-15:10 T110 Alternative Web Based Educational Tool for Program Logic Formulation

Rhea N. Tortor, Mapua Malayan Colleges Laguna, Philippines

15:10-15:25 T160 Utilizing Artificial Neural Network to Analysis of Academic Performance and Retention in Civil Engineering Education

Quennie Mae Estrella, National University, Philippines

15:25-15:40 T161 Assessing the Impact of Traffic Variables on Accident Severity: An Artificial Neural Network-Based Approach in Metro Manila

Quennie Mae Estrella, Mapua University, Philippines

ONSITE SESSION 4

Onsite Session 4: AI-Enhanced Tools and Digital Innovations in STEM Education Chairperson: Prof. Nina Begičević Ređep, Faculty of Organization and Informatics, University of Zagreb, Croatia	13:10-15:40 Saturday, April 19, 2025 Room804<8F>

13:10-13:25	T055	Understanding the Use Behaviour of Gen AI among Full Time Students and Apprenticeship Trainees in Higher Education *Claudia Lim, Institute of Technical Education, Singapore*
13:25-13:40	T069	Experiencing Generative AI for Problem Structuring in a Decision-Making *Nina Begičević Ređep, Faculty of Organization and Informatics, University of Zagreb, Croatia*
13:40-13:55	T079	Symbio Coding: an Educational Testbed for AI Agent simulation as Software Development Team Member *Nadezda Spiridovska, Transport and Telecommunication Institute (TSI), Latvia*
13:55-14:10	T064	Analyzing Education-Related Posts in Detecting Depression on Social Media using Topic Modeling Method and Large Language Model *Syauki Aulia Thamrin, Asia University, Taiwan*
14:10-14:25	T104	Analyzing Blackboard Learn Usage Patterns Among Higher Education Students *Rozaini Ahmad, Sunway College (Kuala Lumpur), Selangor, Malaysia*
14:25-14:40	T133	Blending Tradition and Technology: The Role of IT Tools in Modern Education *Chutisant Kerdvibulvech, National Institute of Development Administration, Thailand*
14:40-14:55	T147	A Mobile Application for Electronic Parts Counting and Identification in Physics Laboratory *Suphamit Chittayasothorn, King Mongkut's Institute of Technology Ladkrabang, Thailand*
14:55-15:10	T071-A	The Effect of Using Google Maps on Improving Students Geography Literacy *Ade Nurdessyanah, Universitas Pendidikan Indonesia, Indonesia*
15:10-15:25	T086-A	A Preliminary Study on the Application of Digital Twins for Environmental Education in Urban Green Spaces: Integrating Carbon Neutrality and Participatory Design *Che-Yu Hsu, Chaoyang University of Technology, Taiwan*
15:25-15:40	T075	Enhancing Critical Thinking in Pharmacology Education: Active Learning Management for Congestive Heart Failure through Moodle and One-Page Web Integration *Theerada Taesotikul, Faculty of Pharmacy, Silpakorn University, Thailand*

ONSITE SESSION 5

Onsite Session 5: Teacher Training and Sustainable Pedagogy Chairperson:	13:10-15:25 Saturday, April 19, 2025 Room705<7F>

13:10-13:25	T027-A	Using Sharestart Teaching Method to Enhance Students' Moral Literacy and Leadership Capability in Military Academies *Tina Pingting Tsai, Center for General Education, R.O.C. Military Academy, Taiwan*
13:25-13:40	T043	Research on the Effects of Different Reflective Action Models on Service Learning in Design Education *Shu-Yin Yu, Ming Chuan University, Taiwan*
13:40-13:55	T081-A	Empowering Global Educators: AI-Driven Lesson Planning to Bridge Gaps in Sustainability Literacy for the Sustainable Development Goals *Ka Lee Carrie Ho, Anglia Ruskin University, UK*
13:55-14:10	T198-A	A Study on the Coaching Skills of Educational Supervisors in the Sukhothai Primary Educational Service Area Office 2, Thailand *Sasitorn Thongon, Naresuan University, Thailand*
14:10-14:25	T221-A	The Study of Innovative Teacher Characteristics in the Context of Thai Education: A Case Study of Teachers under the Tak Primary Educational Service Area Office 1, Thailand *Rungtiwa Khamsiri, Naresuan University, Thailand*
14:25-14:40	T233-A	The Development Results of a Supervision Model Based on the Professional Learning Community Concept Combined with Collaborative Lesson Planning to Enhance Teachers' Active Learning Abilities Promoting of Anubanchun (Banbuasathan) School, Thailand *Laksana Chantima, Naresuan University, Thailand*
14:40-14:55	T609	Teacher beliefs, challenges, and opportunities regarding technology integration for teaching organic chemistry at university *Meriem Harabi, Virtuel University of Tunis, ISEFC Tunisia*
14:55-15:10	T624-A	Deciding Which Teaching Assistants to Hire *Tony Eng, MIT, USA*
15:10-15:25	T656-A	Unlocking Disciplinary Potential: The Power of Agreements in Higher Education *Susilowati Susilowati, Yogyakarta State University, Indonesia*

ONSITE SESSION 6

Onsite Session 6: Adaptive Tools for Multilingual and Special Education Chairperson:	13:10-15:40 Saturday, April 19, 2025 Room 706<7F>

13:10-13:25   T149-A   Enhancing History-Taking and Anesthesia Counseling Skills with ChatGPT-Powered Virtual Patients in Fifth-Year Medical Students

Inthiporn Kositanurit, Naresuan University, Thailand

13:25-13:40   T095   Japanese Shadowing Training Using Synchronized Partial Captions

Akinori Ito, Graduate School of Engineering, Tohoku University, Japan

13:40-13:55   T012   Fifty Years of Research on Bilingual and Multilingual Early Childhood Education: A Bibliometric Analysis and Systematic Literature Review

Rahmawati Nur Alim, Universitas Negeri Yogyakarta, Indonesia

13:55-14:10   T016-A   Enhancing Primary School Students' Writing Skills in EFL through RADEC (Read-Answer-Discuss-Explain And Create) Learning Model Using Canva

Gayatri Nurnaningrum, Universitas Pendidikan Indonesia, Indonesia

14:10-14:25   T105   Listening Training on Consonants using Synthetic Speech for Japanese Learners of Russian Language

Sei Matsushita, Kindai University, Japan

14:25-14:40   T260   A Survey of Speech Emotion Recognition through Learning on Limited Data

Jiaxin Wu, Southeast University, China

14:40-14:55   T261   Bidirectional Automatic Program Code Conversion for Learning Multiple Programming Languages

Toru Goto, Waseda University, Japan

14:55-15:10   T177   Using Google Docs in Writing Classes: Insights from EFL Students' Perspectives

Thu Anh Nguyen, FPT University, Vietnam

15:10-15:25   T232-A   The Results of Organizing Learning Activities Using Geographic Processes That Affect The Analytical Thinking Abiity for Grade 7 Students in Thailand

Apiradee Maneenil, Naresuan University, Thailand

15:25-15:40   T125-A   Development of an Application to Enhance the Independence of Students with Mild Intellectual Disabilities as Cashiers in Buy-Sell Transactions

Dinda Dwi Utari, Yogyakarta State University, Indonesia

ONSITE SESSION 7

16:00-16:15　T031-A　The Challenges of Conversational AI Interfaces in Higher Education

Richard Lachman, Toronto Metropolitan University, Canada

16:15-16:00　T034　Can ChatGPT Effectively Handle Economics Questions? Evidence from Hong Kong

Yun Liu, The Hong Kong Polytechnic University, Hong Kong, China

16:30-16:45　T068　A new automatic generation and grading system for multiple-choice tests based on 2D barcodes

Danilo Tardioli, Centro Universitario de la Defensa, Zaragoza, Spain

16:45-17:00　T072　Evaluating the General Technology Acceptance Model (GTAM) in the Education Context: An Analysis of AI-based Chatbot Acceptance Among Schoolchildren

Jan Spilski, Center for Cognitive Science, University of Kaiserslautern-Landau (RPTU) Kaiserslautern, Germany

17:00-17:15　T148-A　Exploring the Impact of Chatbot Humor on Student Satisfaction in Online Learning

Wanshiou Yang, National Changhua University of Education, Taiwan

17:15-17:30　T173　Investigating EFL Students' Attitudes Towards AI-powered Tools in English Language Learning　　Anh Tuan Pham　　FPT University, Vietnam

17:30-17:45　T606-A　Contributions or Constraints: Uncovering Students' and Teachers' Perspectives on Peer Feedback Activities in an English Oral Presentation Course

Raveewan Wanchid, King Mongkut's University of Technology North Bangkok, Thailand

17:45-18:00　T627　The Uses of Artificial Intelligence in Civic Education: A Systematic Literature Review

Idang Ramadhan, Universitas Negeri Yogyakarta, Indonesia

ONSITE SESSION 8

Onsite Session 8: Interactive VR/AR for STEM and Cognitive Development	16:00-18:15
Chairperson: Prof. Maiga Chang, Athabasca University, Canada	Saturday, April 19, 2025 Room 802<8F>

16:00-16:15	T050	Impact of Cognitive Effort, Social Interaction, Enjoyment of Learning, and Immersive Presence on Academic Achievement with Virtual Reality *Fatima Hamdani, École nationale supérieure d'Arts et Métiers	ENSAM, France*
16:15-16:00	T062	The Impact of Integrating VR into Learning on Fifth-Grade Elementary Students' Learning Effectiveness *Chun-Ping Wu, National University of Tainan, Taiwan*
16:30-16:45	T127-A	Development of a Virtual Drone System for Applications in Geoscience Education *Wernhuar Tarng, National Tsing Hua University, Taiwan*
16:45-17:00	T179	Enhancing Early Childhood Reading Skills Through Immersive AR and Conversational AI *Hew Soon Hin, Multimedia University, Malaysia*
17:00-17:15	T251	A Framework for Supporting Non-Native English Speakers in Programming Education *Niken Prasasti Martono, Tokyo University of Science, Japan*
17:15-17:30	T645	Riding the Change: A Playful Narrative of Climate Educational Game for Children in East Nusa Tenggara Through the Bicycle Model Framework *Umar Putrajaya, Universitas Multimedia Nusantara, Indonesia*
17:30-17:45	T646	Winning the Climate Challenge: Exploring the Gameplay of GENERAKSI for Children in East Nusa Tenggara *Kathleen Manilova Tedja, Universitas Multimedia Nusantara, Indonesia*
17:45-18:00	T651	Using Lesson Recordings with Visual Learning Analytics as Research and Educational Resources: A Case Study of a High-achieving Pre-service Teacher *Chung Kwan Lo, The Education University of Hong Kong, Hong Kong, China*
18:00-18:15	T080	ChatbotLLM – Training Educational Chatbots on the Materials Uploaded by Teachers *Maiga Chang, Athabasca University, Canada*

ONSITE SESSION 9

Onsite Session 9: Cybersecurity, Authentic Assessment and EdTech Infrastructure Chairperson:	16:00-18:00 Saturday, April 19, 2025 Room 803<8F>

16:00-16:15 T025

Integrating Systems, Design, and Futuristic Thinking for Sustainable Complex Systems Design

Karin Johansson, Uppsala University, Sweden

16:15-16:30 T083

Classroom Instrumentation for Gaze Behavioral Tracking Detection

Thitirat Siriborvornratanakul, Graduate School of Applied Statistics, National Institute of Development Administration (NIDA), Thailand

16:30-16:45 T187

Designing and Constructing Authentic Assessments for Cybersecurity Education

Joshua Dwight, RMIT University, Vietnam

16:45-17:00 T216-A

Analyzing the Effectiveness of Talent Recruitment Strategies in Educational Institutions

Yi-Gean Chen, National University of Tainan, Taiwan; Jao-Nan Cheng, National Taitung University, Taiwan and Shiun-Jr Cheng, Tainan Municipal Yanhang Junior High School, Taiwan

17:00-17:15 T231-A

Developing activities to enhance lifelong learning competencies for students in the Bachelor of Education program at Nakhon Sawan Rajabhat University

Kantima Phueaktai, Naresuan University, Thailand

17:15-17:30 T649

Aligning Engineering and IT Curricula with AI Industry Needs: A Multinational Study of Competency Gaps in Higher Education

Abdulsalam K. Alhazmi, University of Science and Technology Faculty of Engineering and Computing Aden, Yemen

17:30-17:45 T604-A

Enhancing self-directed learning and academic engagement through AI: A mixed-method study

Cecilia Ma, The Hong Kong Polytechnic University, Hong Kong, China

17:45-18:00 T109

Enhancing College Students' Self-Efficacy in FinTech Education Through a Comprehensive Learning Strategy: A Quasi-Experimental Study

Yong-Shiuan Lee, Feng Chia University, Taiwan

ONSITE SESSION 10

Onsite Session 10: Social-Emotional Learning and Classroom Climate Chairperson: Dr. Satori Hachisuka, The University of Tokyo, Japan	16:00-18:15 Saturday, April 19, 2025 Room 804<8F>

16:00-16:15	T051	Technology-Enhanced Learning for Fostering Belonging in Transnational Education *Kok Keong Chai, Queen Mary University of London, United Kingdom*
16:15-16:00	T077-A	The Influence of the TTW Learning Model Based on BUDI KEMDIKBUD Audio Books on Elementary School Students' Creative Writing Skills *Jasmia, Universitas Pendidikan Indonesia, Indonesia*
16:30-16:45	T1001	Competency Development of School Counselors: Practices and Challenges *Arina Rijki Aulia, Yogyakarta State University, Indonesia*
16:45-17:00	T101	YouTube's Role in Motivating Students and Developing Interpersonal Skills for Formative Assessment in Higher Education *Muhamad Safwan Bin Mohd A'seri, Sunway College (Kuala Lumpur), Selangor, Malaysia*
17:00-17:15	T102	Effects of Displaying the Teachers' Gaze Through Webcam in Video Lectures on Student Learning *Satori Hachisuka, The University of Tokyo, Japan*
17:15-17:30	T145	Evaluating Classroom Climate in Primary and Secondary Education: Insights from AI-Based Classroom Observation *Xiaoyu Tang, South China Normal University, China*
17:30-17:45	T184	SPHERE: Social Partner Hub of Emerging Resolution in Education *Thitanat Nasongkhla, Chulalongkorn University, Thailand*
17:45-18:00	T631	Accessibility centres in Higher Education Institutions: inclusiveness and peer tutoring programmes *Magda Nikolaraizi, Vassilis Argyropoulos, University of Thessaly, Greece*
18:00-18:15	T639	Exploring Students' Use of Generative AI in Transformative Futures Innovation Education *Lauri Valtonen, CERN IdeaSquare, Switzerland*

ONSITE SESSION 11

Onsite Session 11: Gamification and Metacognitive Skill Enhancement Chairperson: Dr. Donovan Esqueda, Tecnológico de Monterrey, Mexico	16:00-18:15 Saturday, April 19, 2025 Room 705<7F>

16:00-16:15	T056-A	Collaboration between Game-based Learning and the Roaming the Stairs Model in Islamic Religious Education at the Junior High School Level *Ratna Wulandari, Universitas Pendidikan Indonesia, Indonesia*
16:15-16:00	T108	Mathemagics: A Gamified Approach to Basic Mathematical Operations *Khristian G. Kikuchi, Mapua Malayan Colleges Laguna, Philippines*
16:30-16:45	T124-A	The Transformation of Critical Thinking and Metacognitive Skills Through the Teams Games Tournament with Question Cards *Nurul Amini, Yogyakarta State University, Indonesia*
16:45-17:00	T151-A	The Effects of Developing English Vocabulary Knowledge Through Digital Game-Based Learning for Grade 6 Students in Thailand *Kochchakorn Jaigaroon, Naresuan University, Thailand*
17:00-17:15	T138	FRACTAL Virtual Collaborative Toolset for Business Strategy and Eco-Friendly Innovations in Product Engineering Education *Donovan Esqueda, Tecnológico de Monterrey, Mexico*
17:15-17:30	T175	An Implementation of Grammar-Concept Understanding Problems in Verilog Programming Learning Assistant System *Shaobo Jin, Okayama University, Japan*
17:30-17:45	T607-A	Mapping out the Importance-Difficulty Matrix: Students' and Teachers' Perceptions of English Oral Presentation Skills *Valaikorn Charoensuk, KMUTNB, Bangkok, Thailand*
17:45-18:00	T603-A	Learners, Educators, and GenAI: A Triad for Personalised Learning and Student-Centered Pedagogy in Higher Education *Yue Chen, Queen Mary University of London, UK*
18:00-18:15	T107	Development of a Digital Game Based Learning for Media and Information Literacy *Khristian G. Kikuchi, Mapua Malayan Colleges Laguna, Philippines*

ONSITE SESSION 12

Onsite Session 12: Curriculum Innovation and Futuristic Educational Models Chairperson:	16:00-18:15 Saturday, April 19, 2025 Room 706<7F>

16:00-16:15	T017-A	Analysis of Elementary School Students' Understanding of The Nature of Science based on Gender and Regional Origin *Indri Andriani Astuti, Universitas Pendidikan Indonesia, Indonesia*
16:15-16:00	T058	Examining the Influence of Perceptual Discrepancy for Visual Information on Memory Consolidation Using the Method of Loci *Shunki Tsumagari, The University of Tokyo, Japan*
16:30-16:45	T060	Understanding Student Behaviour in Code Review Activities of Programming Courses *Duong Hoang Thanh, Feng Chia University, Taiwan*
16:45-17:00	T067	Empowering Instructional Design Research: Open-Access Experimental Materials *Pierre Bondesan, Institute of Technology Arts et Métiers, France*
17:00-17:15	T172	The Learner's Motivation on Digital Badges Attainment for Micro-Credentials Computing Programs: A Comparative Study Between Philippines and Malaysia *Norshuhani Zamin, De La Salle University, Philippines*
17:15-17:30	T195	Teaching Strategies for Circular Saw Operation-An Interview Analysis of Practicing Teachers *Hao Jhe Li, National Taipei University of Technology, Taiwan*
17:30-17:45	T615	The transmission of gesture in design education: the case of a hybrid Sketching workshop experience, pedagogical innovation through technological devices. *Amina Tekitek Bouden, ESSTED, University of Manouba, Tunisia; Houda Kohli Kallel; ISAM SB, University of Kairouan, Tunisia*
17:45-18:00	T152-A	THE RESULTS OF THE STUDY ON THE NECESSITY TO ENHANCE AUTONOMOUS LEARNING FOR SECOND -YEAR VOCATIONAL CERTIFICATE STUDENTS *Chayanee Hanrob, Naresuan University, Thailand*
18:00-18:15	T150-A	The Results of Development Learning Activities Using a Research-Based Approach Integrated with Profesional Contexts to Foster Agriculture Innovations Competencies for Vocational Education Graduates in Thailand *Watcharapol Boonprakorb, Naresuan University, Thailand*

ONLINE SESSION 1

Online Session 1: Emerging Technologies in Educational Applications Chairperson:	13:15-16:00 Saturday, April 19, 2025 Room A: 875 5031 0886

13:15-13:30	T040	Navigating Digital Soundscape Exploring SHS Students Lived Experiences with Voice-activated AI Assistants *Jowie G. Espaldon, National University, Philippines*
13:30-13:45	T181	Enhancing Cultural and Educational Experiences with 5G-Driven Augmented Reality: A Case Study of Taiwan's Beigang Mazu Pilgrimage Digital Integration *Hsiao-Ming Chang, Putain University, China*
13:45-14:00	T259	Design Creative Experiential-Based AI-IoT Courses to Enhance Creative Problem-Solving Skills of Non-STEM Vocational Students *Thi Phuong Vy Nguyen, National Taiwan Normal University, Taiwan*
14:00-14:15	T054	Design of an Intelligent Ecological Environment Monitoring System Based on Sound Analysis *Yu-Kuo Chu, Graduate Institute of Electrical Engineering and Computer Science, Vanung University, Taiwan*
14:15-14:30	T155	Flexible web-based method to support 1st grade math learning for Vietnamese children *Thi Quynh Hoa Nguyen, Hanoi National University of Education, Vietnam*
14:30-14:45	T167	OVUHealthCare: An e-Consulting Application for Women Reproductive Health in the Philippines *Adam Ulric E. Garcia, Mapua University, Philippines*
14:45-15:00	T196	CyberGuy: A Web-based Cybersecurity e-Learning System for Law Enforcers *Sean Alejandro E. Casin, Mapua University, Philippines*
15:00-15:15	T038	SecureGuard: An Enhanced Hybrid Phone IoT Tracking Solution with Security Controls *Rogelyn Victor, National University, Philippines*
15:15-15:30	T136	Implementation of Blockchain-Based System for Academic Certificate Verification on Device with Limited Resources *Bruno Hrgović, Algebra Bernays University, Croatia*
15:30-15:45	T218	Appropriating Hybrid Teaching: Faculty Challenges in a Multi-Campus German University System *Kay Berkling, Duale Hochschule Baden Württemberg, Germany*
15:45-16;00	T171	A Systematic Literature Review on the Applicability of Visual Sentiment Recognition in Designing Human-Computer Interaction Applications for Autism *Abigail V. Velasco, National University, Philippines*

ONLINE SESSION 2

Online Session 2: Learning Analytics and Adaptive Educational Systems Chairperson:	16:00-18:45 Saturday, April 19, 2025 Room A: 875 5031 0886

16:15-16:00	T106	**Modeling Student Learned Helplessness in Mathematics Using Random Forest** *John Paul P. Miranda, University of the East, Philippines*
16:30-16:45	T103	**Computerized Diagnostic Language Assessment of Oral Requesting-in-interaction: Proof-of-concept** *Allan Nicholas, University of Aizu, Japan*
16:45-17:00	T194	**Personalized Academic Pathway Recommendation at the Program Level** *Duy Nguyen, Ho Chi Minh City University of Technology, Vietnam National University Ho Chi Minh City, Vietnam*
17:00-17:15	T258	**Uncertainty-Driven Student Performance Prediction Based on LSTM** *Tianye Zhou, Beijing Institute of Technology, China*
17:15-17:30	T267	**Transformer-Enhanced Architecture with Adaptive Feature Selection for Performance Prediction in MOOCs** *Jinyuan Liu, Beijing Institute of Technology, China*
17:30-17:45	T268	**Research on Performance Prediction Model Based on Innovative Methods** *Pinren Lu, Beijing Institute of Technology, China*
17:45-18:00	T269	**A Comparative Study of Flipped Classroom and Traditional Teaching in Middle School Science Test Review: Effects on Student Achievement and Engagement** *Lai Chu Lam, Department of Computer Science, Illinois Institute of Technology, United States*
18:00-18:15	T249	**Technology-Mediated vs Classroom-Based Learning: A Case of Duolingo and Beelingua** *Aemilia Jasmine Cleopatra, Bina Nusantara University, Indonesia*
18:15-18:30	T186	**Enhancing Student Performance Prediction through Ensembles of Machine Learning Models and Explainable Artificial Intelligence** *Santosh Ray, Faculty of Information Technology Liwa College Abu Dhabi, United Arab Emirates*
18:30-18:45	T074	**Classifying Cognitive Load in Digital Textbook Reading using Electroencephalogram Signals** *Peter El Hachem, Department of Computer Science, ETH Zurich, Switzerland*

Online Session 3: AI-Driven Pedagogical Innovations and Human-AI Collaboration Chairperson:	09:00-11:45 Sunday, April 20, 2025 Room A: 875 5031 0886

09:00-09:15	T059	Phased Evolution of Teacher–AI Collaboration for the Effective Mentoring in Teacher Education *Hideaki Yoshida, Morioka University, Japan*
09:15-09:30	T266	PBL4DF: Problem-Based Learning for Digital Forensics in Community Colleges *Allison DaCosta Sands, Virginia Commonwealth University, United States*
09:30-09:45	T182	Software Application Experiences: Cloud Technology and Collaborative Work in a University Course *Hector Rafael Morano Okuno, Tecnologico de Monterrey, School of Engineering and Science, Mexico*
09:45-10:00	T119	Comparison of Claude (Sonnet and Opus) and ChatGPT (GPT-4, GPT-4o, GPT-o1) in Analyzing Educational Image-based Questions from Block-Based Programming Assessments *Wan Chong Choi, Department of Computer Science, Illinois Institute of Technology, United States*
10:00-10:15	T701-A	From Anime to ESL: Innovative AI Tools for Language Education *Marc Santamaria, UC Berkeley Law School; City College of San Francisco; Santamaria Law Firm, USA*
10:15-10:30	T061	A Preliminary Exploration of the Cooperation between Humans and AI in the Creation of Picture Books *Miao-Fei Wu, Southern Taiwan University of Science and Technology, Taiwan*
10:30-10:45	T113	Computing Students' Attitudes Toward ChatGPT Across Learning Modalities in Programming Courses *Juvy C. Grume, Don Honorio Ventura State University, Philippines*
10:45-11:00	T247	Exploring the Role of AI tools in Pre-Service Early Childhood Teacher Training: Perceptions, Challenges, and Future Directions *Ning Zhang, Shanghai Normal University Tianhua College, China*
11:00-11:15	T248	TOSWT: A Dataset for Tracing the Origins of Students' Writing Texts Polished by Large Language Models *Pinren Lu, Beijing Institute of Technology, China*

11:15-11:30   T023   Enhancing Artificial Intelligence Applications in Engineering Pedagogies by Using the Knowledge-Based Recommender System

Yan Li, University of Nottingham, Ningbo, China

11:30-11:45   T657-A   A Study of Manpower Cost Reduction in the Use of Generative AI in Engineering Education

Hisayuki Sasaoka, National Institute of Technology, Asahikawa College, Japan

ONLINE SESSION 4

Online Session 4: Digital Education Equity and Policy-Curriculum Innovation Chairperson:		09:00-11:10 Sunday, April 20, 2025 Room B: 884 2995 6586
09:00-09:25	Invited Talk	A Bibliometric Review of Mobile Assistive Technology Research for Dyslexic Children: Mapping the Landscape of a Decade *Mariam Mohamad, Universiti Sains Malaysia, Malaysia*
09:25-09:40	T185	Tertiary-Level Students' Perceptions of Dishonest Acts in Technology-Enabled Classrooms *Ben Oliver D. Tutor, National University, Philippines*
09:40-09:55	T052	A Study on Education Policy of 'One Tablet per Student' in Enhancing Learning Efficiency *Yuli Chan, National Tsing Hua University, Taiwan*
09:55-10:10	T085	Visualizing Abstract Concepts - Development and Application of Digital Materials for Vocational Education Curriculum *Xinhua Gan, Beijing Polytechnic, China*
10:10-10:35	T166	Decoding Kindergarten Management Policies: A Python - Based Big Data Text Analysis across China, Japan, and Sweden *Dan Li, Nanjing Xiaozhuang University, China*
10:25-10:40	T057	Pattern of Student Game Setting Selections in an Intelligent Mobile MCSCL using the Apriori Algorithm *Annaliza E. Catacutan-Bangit, National University, Philippines*
10:40-10:55	T224	Data-Driven Analysis of Collaborative Problem-Solving and Emotions in Knowledge Building among Different Performance Groups *Qianqian Ma, Central China Normal University, China*
10:55-11:10	T608	A Qualitative Interview Study on the Training Needs Analysis (TNA) of Clinical Thinking Ability *Yongqiao Li, Macao Polytechnic University, China*

Online Session 5: Technology-Enhanced Learning Models and Digital Pedagogy Chairperson: Assoc. Prof. Sheng-Shiang Tseng, National Chengchi University, Taiwan	09:00-11:30 Sunday, April 20, 2025 Room C: 890 9918 1661

09:00-09:15	T244	Utilizing 3D Avatars in Virtual Spaces for Foreign Language Education: A Case Study on Role-Play Conversation Practice through Project-Based Comedy Workshops in Japanese Classes *Pei-Ling Chien, Kyushu University, Japan*
09:15-09:30	T035-A	Impact of metacognitive strategies on engagement and professional knowledge in an online gamified teacher community *Sheng-Shiang Tseng, National Chengchi University, Taiwan*
09:30-09:45	T097	Exploring the Impact of Interdisciplinary Learning Communities on Learners' Collaborative Problem-Solving Abilities in Online Collaborative Learning *Wenyu Yan, Beijing Normal University, China*
09:45-10:00	T222	Digital Guide to Educational Podcasts for High School Teachers *Cristián Londoño Proaño, Universidad Tecnológica Indoamérica, Ecuador*
10:00-10:15	T243-A	Enhancing Digital Marketing Education through AI Chatbots: An Action Research on Problem-Based Learning and the Big6 Model *Jyun-Hao Jian, Fu Jen Catholic University, Taiwan*
10:15-10:30	T229	Blended Learning Needs Analysis of Students in the SPOC Era: Local University Perspective in China *Lu Lingming, Yulin Normal University, China*
10:30-10:45	T098	Exploring the Cognitive Dynamics of Learners' Deep Learning in an Online Course *Chunlin Fan, Beijing Normal University, China*
10:45-11:00	T234	Application of Large Language Models in Foreign Language Vocabulary Teaching *Jingyi Li, Northwest A&F University, Yangling, China*
11:00-11:15	T623	English Learners' Perceptions on Impacts of Online Applications on Language Acquisition *Doan Hoang Duc, FPT University, Vietnam*
11:15-11:30	T250-A	The Role of gama Brain Wave on EEG-based Attention Levels in Human-AI Interactions: A Case Study *Dong-Meau Chang, Lingnan Normal University, China*

DELEGATES&CO-AUTHOR ATTENDEES *(in no particular order)*

Arbee Chen	Asia University, Taiwan
Abdulsalam Alrashidi	ELT SUPERVISOR – MOE, Kuwait
Sabina Rako	Sabina Rako
Yuping Wang	Griffith University, Australia
Karin Johansson	Informatics and Media, Upsala University, Sweden
Jasmine Lai	Institute of Technical Education, Singapore
Chien-Chih Wang	Ming Chi University of Technology, Taiwan
Angkana Onthanee	Naresuan University, Thailand
Lian Wanling Joyce	Singapore Ministry of Education, Singapore
Murella Sambucharan	The University of The West Indies, Trinidad & Tobago
Vivian Alexander	The University of The West Indies, Trinidad & Tobago
Didem Gurdur Broo	Uppsala University, Sweden