

W01: 4th International Workshop on Embodied Learning:Technology Design, Analytics & Practices

09:00-10:30	W01-1
W01-004F	Exploring Cognitive Engagement in Al-Driven Adaptive Psychomotor Sport Training Miguel PORTAZ, Rwitajit MAJUMDAR & Olga C. SANTOS
W01-005F	Exploring Graph Slopes Through a Series of Embodied Learning Experiences Priyadharshni ELANGAIVENDAN, Melwina ALBUQUERQUE, Shizuka DARA & Sanjay CHANDRASEKHARAN
10:50-12:20	W01-2
W01-006F	Unpacking Interaction Markers of Critical Thinking Aditi KOTHIYAL, Rwitajit MAJUMDAR, Shitanshu MISHRA, Jayakrishnan Madathil WARRIEM & Prajakt PANDE
W01-007F	Actions and Interactions at Collaborative Engineering Design Hackathon: Looking Through the Lens of Embodied Cognition Soumya NARAYANAN, Navneet KAUR & Rwitajit MAJUMDAR
W01-008F	Designing an AI-Enhanced Timeline for Monitoring Multimodal Interactions in Embodied Learning Environments Joyce FONTELES, Namrata SRIVASTAVA, Eduardo DAVALOS, Ashwin T S & Gautam BISWAS



W02: The 13th International Workshop on ICT Trends in Emerging Economies (WICTTEE 2024)

09:00-10:30	W02-1
W02-003F	Exploring Learning Analytics: A Case Study of Tertiary Educators' Utilization and Integration of AnimoSpace LMS in the Online Learning Environment Rozanne Tuesday G. FLORES & Ethel C. ONG
W02-007F	An Implementation of Augmented Reality in Guided Inquiry-Based Learning for Enhancing Primary Students' Mental Models in Science Sasivimol PREMTHAISONG, Pawat CHAIPIDECH, Phattaraporn PONDEE & Niwat SRISAWASDI
W02-001S	Design and Assessment of a Mobile Cloud Learning Platform for the Classroom: Examining the Efficiency of Blended Learning in Post-COVID Science Education Joselito Christian Paulus VILLANUEVA, John Lorence VILLAMIN & Joshua TUMOLVA
10:50-12:20	W02-2
W02-014F	Exploring Skills Enhancement in Student Teacher Through Implementation of Design Thinking in Unplugged Game Creation Tian Wong LING, Mas Nida Md. KHAMBARI, Mohd Mokhtar MUHAMAD, Sharifah Intan Sharina Syed-ABDULLAH & Saiful Hasley RAMLI
W02-017F	Factors Influencing ChatGPT Use Behaviour Among Trainee Teachers Sarala VALAIDUM & Jazihan MAHAT
W02-009S	Design and Implementation of an Educational Escape Rooms Class Jesus Alvaro C. PATO, Gerick Jeremiah Niño N. GO, Paolo Santino P. CAOILE, Gio Gabriel C. REYES, Joaquin Enrique B. SINJIAN, Jerold Luther P. AQUINO & Maria Mercedes T. RODRIGO
13:20-14:50	W02-3
W02-002S	A Preliminary Investigation of the Definition and Components of Computational Thinking in the Malaysian Education Landscape: From Educational Technology Experts' Perspective Ahmad Sarji Abdul HAMED, Su Luan WONG, Mohd Zariat Abdul RANI, Mas Nida Md KHAMBARI, Nui Aira Abd RAHIM, Fariza KHALID & Priscilla MOSES
W02-006S	PERS: A Personalized Recommender System for Student-Generated Questions in Programming Courses Pham-Duc THO
W02-010S	A User Acceptance Testing Tool for Mobile Game-Based Learning Application Christian Jade D. GUILLEN & Saturnina F. NISPEROS
W02-016S	Sociotechnical Challenges of Older Educators in Delivering Medical Education Online Ryan EBARDO, John Byron TUAZON & Miriam Louella FERMIN



W02: The 13th International Workshop on ICT Trends in Emerging Economies (WICTTEE 2024)

15:10-16:10	W02-4
W02-013S	Minecraft as a Tool for Digital Game-Based Learning: Enhancing Conceptual Understanding and Attitudes in Mathematics Learning Sakda CHALEEPLIAM, Sasivimol PREMTHAISONG & Pawat CHAIPIDECH
W02-008S	Cognicraft: Smart Exam Question Generation with AI and Bloom's Taxonomy Christian SAGADRACA, Zainal SANTOS, Danilo SIMON Jr., Marianne Jessica TOLENTINO & Reymar VENTURA
W02-004S	Development and Evaluation of a Hybrid Mobile-Learning App Using Design Science Research (DSR) Framework John Lorence VILLAMIN, Joselito Christian Paulus VILLANUEVA & Joshua TUMOLVA



W03: Analysis and Design of Problems/Questions in the Digital Environment: The 17th Workshop on Technology Enhanced Learning by Posing/Solving Problems/Questions

09:00-10:30	W03-1
W03-002	Difficulty-Controllable Reading Comprehension Question Generation Considering the Difficulty of Reading Passages Yuto TOMIKAWA & Masaki UTO
W03-005	Learning Effectiveness and Reflections on Al Literacy in Junior High School Students with Game-Based Learning and Problem-Based Learning Shih-Hua HUANG & Ting-Chia HSU
W03-009	Does Experience of Feedback Generation Promote Student Novel Problem Posing? An Empirical Study in a Database Course Kazuaki KOJIMA
10:50-12:20	W03-2
W03-004	Difficulty-Controllable Reading Comprehension Question Generation Considering the Difficulty of Reading Passages Yuto TOMIKAWA & Masaki UTO
W03-006	Iterative Problem Solving in the Integration of Design Thinking and Game-Based Learning into Enhancing Computational Thinking and Al Literacy Tai-Ping HSU & Ting-Chia HSU
W03-007	Design and Development of a Stepwise Learning Environment for Problem Posing of Arithmetic Word Problem Yusuke HAYASHI, Nagito YAMAMOTO, Susumu SHIMAKAWA & Tsukasa HIRASHIMA



W04: The 8th Computer-Supported Personalized and Collaborative Learning

09:00-10:30	W04-1
W04-003F	Investigating the Impact of Cooperative Group Learning on Blended Teaching and Learning Outcomes: A Case Study of Sixth-Grade Students in an Elementary School De Jun MO & Joni Tzuchen TANG
W04-008F	Investigating Students' Online Learning Perception Through the Lens of Constructivism May Marie P. TALANDRON-FELIPE, Kent Levi A. BONIFACIO & Gladys S. AYUNAR
W04-001S	Integrating Virtual Environment in Teaching Courses Chiu-Jung CHEN & Pei-Lin LIU
10:50-12:20	W04-2
W04-007F	Investigating the Role of AI Book Talk Companion in Enhancing Student Performance: A Pilot Study on Self-Efficacy Yi-Cheng TSAI, Hsiao-Tung YANG, Chang-Yen LIAO, Yen-Cheng YEH & Tak-Wai CHAN
W04-013F	Investigation of Skills Training System Using TF-IDF for the Plasterer's Skeletal Data Ryota TANAKA, Naka GOTODA, Lee SAERON, Ryo KANDA, Ayaka HUNABIKI, Hirotake KANISAWA, Kanae KANDA, Yuka TAKAI & Toshihiro HAYASHI
W04-002S	The Trends in Computer-Supported Virtual Reality Collaborative Learning Ching-Yi CHANG & Cheng-Huan CHEN
13:20-14:50	W04-3
W04-012F	Addressing Public Speaking Anxiety with an Al Speech Coach Frederick Voltair GARCIA Jr., Nicanor Froilan PASCUAL, Miguel Elijah SYBINGCO & Ethel ONG
W04-005S	Exploring the Impact of Integrating Auto-Photography and Imagery Strategies into Computer-Supported Collaborative Learning: A Case Study in a General Education Course on Climate Change Wen-Lung HUANG & Chia-Jung CHANG
W04-010S	Developing an LLM-Empowered Agent to Enhance Student Collaborative Learning Through Group Discussion Sixu AN, Yicong LI, Yu YANG, Yunsi MA, Gary CHENG & Guandong XU
15:10-17:00	W04-4
W04-006S	Exploring the Effect of Collaborative Programming Learning Environment on Student's Computer Programming Competencies and Cognitive Learning Chia-Jung CHANG & Wen-Lung HUANG
W04-009S	Investigating the Impact of Kahoot! On EFL Grammar Learning Jonathan Y. CHIN & Ben CHANG
W04-011S	Designing an LLM-Based Dialogue Tutoring System for Novice Programming Julieto PEREZ & Ethel ONG



W06: GenAI in Education - From Hallucinations to Reality: Integrating Learning Analytics and Generative AI for Enhancing Personalized Learning Experiences

09:00-10:30	W06-1
	Analyzing Teacher-Student Dialogues in Online One-on-One Primary Mathematics Tutoring
W06-001F	A Lag Sequential Analysis of Group Differences
	Gary CHENG, Bo JIANG, Daner SUN, Ming GAO & Zhixuan SONG
W06-004F	Supporting Teacher-Student Book Talk and Book Wish Lists with Al-Driven Technology Chih-En KUO, Hong-Min TU, Chang-Yen LIAO & Tak-Wai CHAN
W06-005F	AVERY: A GenAl-Based Approach to Enhancing Learner Engagement in English Writing Ka-Lai WONG, Patrick OCHEJA, Brendan FLANAGAN & Hiroaki OGATA
10:50-12:20	W06-2
	Panel Discussion
13:20-14:50	W06-3
W06-007F	How AI Supports Returning Adult Learners in a Developing Economy: Enhancing Academic Writing Through Self-Determination Theory Mary Rose MARTINEZ & Ryan EBARDO
W06-009F	Developing a Multimodal Learning Analytics Approach to Examine Students' Cognitive Presence and Metacognition in a Metaverse Environment Yanjie SONG, Lei TAO, Hao DENG & Jiachen FU
W06-010F	Integrating ChatGPT into Flipped Learning: Enhancing Students' Creative Writing Skills and Perception Worapong KHUIBUT, Sasivimol PREMTHAISONG & Pawat CHAIPIDECH
15:10-17:00	W06-4
W06-011F	Competency-Based Assessment in the Era of Generative Artificial Intelligence: Perspectives of Selected STEM Educators Friday Joseph AGBO, Heather Kitada SMALLEY & Kathryn NYMAN
W06-006S	A Case Study for Educators with ChatGPT and Plato's Allegory of the Cave Anna Y.Q. HUANG, Jain-Wei TZENG, Chi-Sheng HUANG, Zhi-Qi LIU, Bryan Carl TANUJAYA, Owen H.Q. LU
W06-008S	Supporting Students' Post-Exam Reflection Needs in College Automation Engineering Course Using LLM Edward ANOLIEFO, Patrick OCHEJA, Regina OCHONU, Brendan FLANAGAN & Hiroaki OGATA



W07: The 7th Workshop on Predicting Performance Based on the Analysis of Reading and Learning Behavior

09:00-10:30	W07-1
W07-001F	Exploring Cross-Disciplinary Education: Enhancing Science Learning with Digital Picture Books Yan-Yu JAU & Joni Tzuchen TANG
W07-002F	Methods of Balancing Model Explainability and Performance in Identifying At-Risk Students Tiffany T.Y. HSU, Brendan FLANAGAN & Owen H.T. LU
10:50-12:20	W07-2
W07-003F	Effects of the Self-Regulated Learning and Motivation on Learning Achievements of the Programming Courses Mu-Sheng CHEN & Ting-Chia HSU
W07-004F	GazeViz: A Web-Based Approach for Visualizing Learner Gaze Patterns in Online Educational Environment Education DAVALOS, Namrata SRIVASTAVA, Yike ZHANG, Amanda GOODWIN & Gautam BISWAS



W08: The 12th Workshop on Technology-Enhanced STEM Education (TeSTEM Workshop)

09:00-10:30	W08-1
W08-001F	Novice Programmers' Saccadic Patterns in Error Message Comprehension and Syntax Error Identification Caren PACOL, Maria Mercedes RODRIGO & Christine Lourrine TABLATIN
W08-004F	Challenges and Opportunities for Designing and Implementing Ubiquitous Game-Based Learning to Cultivate Digital Citizenship in Thailand Patcharin PANJABUREE, Gwo-Jen HWANG, Niwat SRISAWASDI, Ungsinun INTARAKAMHANG & Sasipim POOMPIMOL
W08-005S	Reducing Undergraduate Students' Information Technologies (ITs) Anxiety Through Implementation of Blended Learning: A Case Study in the Basic Natural Science Course Anggiyani Ratnaningtyas Eka NUGRAHENI, Anggraeni Dian PERMATASARI & Antuni WIYARSI
10:50-12:20	W08-2
W08-002F	Predicting Emotional Impact on Peer Review, Peer Assessment, and Self Assessments Using Deep Learning and NLP in STEM Education Pascal Muam MAH
W08-008F	Leveraging Generative AI for Automatic Scoring in Chemistry Education: A Web Based Approach to Assessing Conceptual Understanding of Colligative Properties Sri YAMTINAH, Dimas Gilang RAMADHANI, Antuni WIYARSI, Hayuni Retno WIDARTI & Ari Syahidul SHIDIQ
W08-010S	Fostering TPACK Self Efficacy Among Pre-Service Chemistry Teachers: A Case Study from Indonesia Anggiyani Ratnaningtyas Eka NUGRAHENI & Niwat SRISAWASDI



W08: The 12th Workshop on Technology-Enhanced STEM Education (TeSTEM Workshop)

13:20-14:50	W08-3
W08-003F	Math Learning Application on Mobile Devices Following the STEAM Educational Model Nguyen-Manh THANG & Pham-Duc THO
W08-011F	Does Interactive Augmented Reality Enhance Primary Students' Geometric Understanding and Visual-Spatial Skills in Mathematics Learning? Atcharaporn ASSAWAPHUM, Sasivimol PREMTHAISONG & Pawat CHAIPIDECH
W08-007S	Promoting Quantitative Analysis in School Chemistry with Technology-Supported Hands-On Laboratory Learning: A Case of Arduino-Based Portable Spectrophotometer Ari Syahidul SHIDIQ, Fa'ari SALSABIILA, Sri YAMTINAH, Sri MULYANI, Murni RAMLI, Hayuni Retno WIDARTI & Nahadi
15:10-17:00	W08-4
W08-009F	The Urgency of Small-Scale Laboratory Learning Media with Ethno-Electrochemical Contexts Based on Content Creators Hayuni R. WIDARTI, Sumari, Munzil, Nahadi, Ari S. SHIDIQ, Berliyana I. PANULATSIH, Ghaitsa Z. S. P. PUTRI, Nafisah KHAIRUNNISA & Deni A. ROKHIM
W08-012F	Exploring the Effect of Marker-Based AR Gamification on Primary Students' Science Concepts and Motivation Pawat CHAIPIDECH, Sasivimol PREMTHAISONG, Phattaraporn PONDEE & Niwat SRISAWASDI
W08-006S	Exploring the Impact of Digital Divide on the Academic Performance of STEM Students in Hybrid Modality May Marie P. TALANDRON-FELIPE & Jundy V. INTAO



W09: The 4th Workshop on Innovative Technologies for Enhancing Interactions and Learning Motivation

Monday, Nov	
09:00-10:30	W09-1
W09-001S	AR ² : Augmented Reality for Enhanced Reading Comprehension Allan Jay ESTEBAN
W09-002S	Developing the Interactive Game-Based Picture Book "Food Ninja" to Enhance Creativity in Elementary School Students Wen Chun LAN, De Jun MO & Joni Tzuchen TANG
W09-003F	An Estimation of Student Well-Being Using Experience Sampling Arthur W. NEBRAO, Jr. & Maria Mercedes T. RODRIGO
W09-004S	Exploring the Use of Short Video Social Media for Learning ESL in Indonesia Riska SAPUTRA, Tsaqufal JALILIY & Intan SETIANI
W09-005S	Narrative Introduction Text Generation Support System According to Reader Preferences Ryusei SHIMONAKA, Kota KUNORI & Tomoko KOJIRI
W09-007S	Galvanic Skin Responses and Flow: Insights from Multimodal Learning Analytics in Personal Learning Environment Yu-Lin HO, Yuan-Hsuan LEE & Jiun-Yu WU
10:50-12:20	W09-2
W09-006F	Transforming Student Feedback into Institutional Action Plans: A Data-Driven Approach Arlene Mae CELESTIAL VALDERAMA
W09-008F	BioMol DigiGames: An App for the Mastery of Biomolecules Joshua TUMOLVA, Armando Victor GUIDOTE, John Lorence VILLAMIN & Joselito Christian Paulus VILLANUEVA
W09-009S	The Era of Learning Programming Through Program: Challenges and Potential of ChatGPT in Revolutionizing High School Programming Education Tzu-Chi YANG
W09-010S	Code Visualization System for Writing Better Code Through Trial and Error in Programming Learning: Classroom Implementation and Practice Shintaro MAEDA, Kento KOIKE & Takahito TOMOTO
W09-011S	Optimization of Non-Verbal Information for English Conversation Agents Using Interactive Evolutionary Computation Yuma SHIMOSAKA, Emmanuel AYEDOUN & Masataka TOKUMARU



W09: The 4th Workshop on Innovative Technologies for Enhancing Interactions and Learning Motivation

13:20-17:00	W09-3
W09-012S	Exploring the Benefits of Strategic Hesitations in Language Learning Robots Ryusei AZUMA, Emmanuel AYEDOUN & Masataka TOKUMARU
W09-013S	Zooming In on Educator Well-Being: Exploring Behavior Attributes, Zoom Fatigue, and Burnout Dynamics Kevynn DELGADO, Mary Rose MARTINEZ, Christine Jamela VALSADO & Ryan EBARDO
W09-014S	The Effect of Collaborative Anchoring on the Development of Digital Curation Skills Among Nursing College Students Chun-Hao CHANG
W09-015F	Enhancing Health Education and Learning Motivation in Primary Students Through Augmented Reality and Game-Based Learning: A Case Study Nattapat BUNYUEN, Sasivimol PREMTHAISONG & Pawat CHAIPIDECH
W09-016S	Improving Engagement in Museums Through Virtual Reality Educational Escape Rooms (VREER): A Framework and Usability Study Eric Cesar E. VIDAL Jr., Nicko R. CALUYA, Joan Dominique L. LEE, Kenneth King L. KO, Jed Laszlo O. JOCSON & Gerick Jeremiah Niño N. GO
W09-017S	Explore the Effect of Metacognitive Awareness on University Students' Learning Outcomes in the Metaverse: Evidence from Eye-Tracking Data Tinghui WU, Yanjie SONG & Xuesong ZHAI



Doctoral Student Consortium (DSC)

09:00-10:30	DSC-1
244	Real-Time Adaptive Learning Environments Using Gaze and Emotion Recognition Engagement and Learning Outcomes AboulHassane CISSE
254	Developing a Multimodal Learning Analytics Approach for Collaborative Learning and Metacognitive Strategies in Virtual Learning Environments for Primary Science Education Lei TAO & Yanjie SONG
223	Competition and Collaboration: A Multi-Modal Analysis of Cognitive Load and Behavior Patterns in Game-Based Learning Lishan ZHENG & Wenli CHEN
10:50-12:20	DSC-2
253	A Proposal for a Quantitative Evaluation Model for Error Image Generation in L2 Vocabulary Learning Kazuki SUGITA, Wen GU, Koichi OTA, Prarinya SIRITANAWAN & Shinobu HASEGAWA
212	Development and Validation of a Problem-Solving Instrument (Multiple-Choice Questions) for Computational Thinking Among Trainee Teachers in the Klang Valley, Malaysia Ahmad Sarji Abdul HAMED, Su Luan WONG & Mohd Zariat Abdul RANI
217	OKLM: Open Knowledge and Learner Model Using Educational Big Data Kensuke TAKII, Changhao LIANG & Hiroaki OGATA
13:20-14:50	DSC-3
248	Exploring the Young Learners' Interactions with Al-Generated Multimodal Feedback in Collaborative Writing Xinyu GUO
241	The Bane of AI in Teaching: Innovation Resistance in Higher Education Instructional Design & Delivery Estefanie BERTUMEN & Ethel ONG
	Discussion



Student Wing (SW)

Tuesday, November 26

14:30-16:30	Student Wing Workshop
	Chair: Prof. Yanjie SONG, The Education University of Hong Kong
	Introduction
	Topic: Get Your Research Published: Essential Tools and Strategies
	Yin YANG, The Education University of Hong Kong
	Q&A Session
	Topic: Unlock Your Early Career Success: Tips and Opportunities for Securing Grants
	Shurui BAI, The Education University of Hong Kong
	Q&A Session
	Interactive Session
	Closing

Early Career Workshop (ECW)

09:00-10:30	ECW-1
ECW01	Can Use of Technologies help Reduce Biases in Academic Recruitment? Kashmira DAVE
ECW02	Leveraging Al-Powered Virtual Meeting Summaries: Towards an Evidence-Based Classroom Observation Assessment Arlene Mae CELESTIAL VALDERAMA
	Advisors Tzu-Chi YANG, Assistant Professor, National Yang Ming Chiao Tung University Cheng-Huan CHEN, Associate Professor, National Tsing Hua University Shao-Chen CHANG, Assistant Professor, Yuan Ze University