

WS01: 4th International Workshop on Embodied Learning:Technology Design, Analytics & Practices

09:00-10:30	WS01-1
W01-004F	Exploring Cognitive Engagement in Al-driven Adaptive Psychomotor Sport Training Miguel PORTAZ, Rwitajit MAJUMDAR, and Olga C. SANTOS
W01-005F	Exploring Graph Slopes Through a Series of Embodied Learning Experiences Priyadharshni ELANGAIVENDAN, Melwina ALBUQUERQUE, Shizuka DARA, and Sanjay CHANDRASEKHARAN
10:50-12:20	WS01-2
W01-006F	Unpacking interaction Markers of Critical Thinking Aditi KOTHIYAL, Rwitajit MAJUMDAR, Shitanshu MISHRA, Jayakrishnan Madathil WARRIEM, and Prajakt PANDE
W01-007F	Actions and interactions at collaborative engineering design hackathon: Looking through the lens of embodied cognition Soumya NARAYANAN, Navneet KAUR, and 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, and Gautam BISWAS



WS02: The 13th International Workshop on ICT Trends in Emerging Economies (WICTTEE 2024)

Tuesday, November 26

09:00-10:30 WS02-1

TO BE ANNOUNCED SOON



WS03: Analysis and Design of Problems/Questions in the Digital Environment: The 17th Workshop on Technology Enhanced Learning by Posing/Solving Problems/Questions

monday, November 25	
09:00-10:30	WS03-1
W03-002	Question Generation Support System Using Others' Research Frames Daiki MAEDA, Kota KUNORI, and Tomoko KOJIRI
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 and 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	WS03-2
W03-004	Difficulty-Controllable Reading Comprehension Question Generation Considering the Difficulty of Reading Passages Yuto TOMIKAWA and 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 and 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, and Tsukasa HIRASHIMA



WS04: The 8th Computer-Supported Personalized and Collaborative Learning

Tuesday, Nov	/ember 26
09:00-10:30	WS04-1
W04-003 F	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 and Joni Tzuchen TANG
W04-008 F	Investigating Students' Online Learning Perception through the Lens of Constructivism May Marie P. TALANDRON-FELIPE, Kent Levi A. BONIFACIO, and Gladys S. AYUNAR
W04-001 S	Integrating Virtual Environment in Teaching Courses Chiu-Jung CHEN and Pei-Lin LIU
10:50-12:20	WS04-2
W04-007 F	Investigating the Role of Al Book Discussion Companions in Enhancing Student Performance: A Pilot Study on Self-Efficacy Yi-Cheng TSAI, Chang-Yen LIAO, and Hsiao-Tung YANG
W04-013 F	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, and Toshihiro HAYASHI
W04-002 S	The Trends in Computer-Supported Virtual Reality Collaborative Learning Ching-Yi CHANG and Cheng-Huan CHEN
13:20-14:50	WS04-3
W04-012 F	Addressing Public Speaking Anxiety with an Al Speech Coach Frederick Voltair GARCIA, Jr., Nicanor Froilan PASCUAL, Miguel Elijah SYBINGCO, and Ethel ONG
W04-004 S	Combining Interest-Driven Creator Theory with Peer Assessment Digital System: A Method for Enhancing EFL Learners' English Oral Skills Chih-En KUO, Charles Y. C. YEH, and Tak-Wai CHAN
W04-005 S	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 and Chia-Jung CHANG
W04-010 S	Developing an LLM-empowered Agent to Enhance Student Collaborative Learning through Group Discussion Sixu AN, Yicong LI, Yu YANG, Yunsi Tina MA, and Guandong XU
15:10-17:00	WS04-4
W04-006 S	Exploring the Effect of Collaborative Programming Learning Environment on Student's Computer Programming Competencies and Cognitive Learning Chia-Jung CHANG and Wen-Lung HUANG
W04-009 S	Investigating the Impact of Kahoot! on EFL Grammar Learning Jonathan Y. CHIN and Ben CHANG
W04-011 S	Designing an LLM-based Dialogue Tutoring System for Novice Programming Julieto PEREZ and Ethel ONG



WS06: GenAl in Education - From Hallucinations to Reality: Integrating Learning Analytics and Generative Al for Enhancing Personalized Learning Experiences

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09:00-10:30	WS06-1
W06-001 F	Analyzing teacher-student dialogues in online one-on-one primary mathematics tutoring A lag sequential analysis of group differences Gary CHENG, Bo JIANG, Daner SUN, Ming GAO, and Zhixuan SONG
W06-004 F	Supporting Teacher-Student Book Talk and Book Wish Lists with Al-Driven Technology Chih-En KUO and Hong-Min TU
W06-005 F	AVERY: A GenAl-based Approach to Enhancing Learner Engagement in English Writing Ka-Lai WONG, Patrick OCHEJA, Brendan FLANAGAN, and Hiroaki OGATA
10:50-12:20	WS06-2
	Panel Discussion
13:20-14:50	WS06-3
W06-007 F	How Al Supports Returning Adult Learners in a Developing Economy: Enhancing Academic Writing Through Self-Determination Theory Mary Rose MARTINEZ and Ryan EBARDO
W06-009 F	Developing a multimodal learning analytics approach to examine students' cognitive presence and metacognition in a metaverse environment Yanjie SONG, Lei TAO, Hao DENG, and Jiachen FU
W06-010 F	Integrating ChatGPT into Flipped Learning: Enhancing Students' Creative Writing Skills and Perception Worapong KHUIBUT, Sasivimol PREMTHAISONG, and Pawat CHAIPIDECH
15:10-17:00	WS06-4
W06-011 F	Competency-based Assessment in the Era of Generative Artificial Intelligence: Perspective of Selected STEM Educators Friday Joseph AGBO, Heather Kitada SMALLEY, and Kathryn NYMAN
W06-006 S	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-Chi LIU, and Owen H.Q. LU
W06-008 S	Supporting Students' Post-Exam Reflection Needs in College Automation Engineering Cour Using LLM Edward ANOLIEFO, Patrick OCHEJA, Regina OCHONU, Brendan FLANAGAN, and Hiroaki OGATA



WS07: The 7th Workshop on Predicting Performance Based on the Analysis of Reading and Learning Behavior

ruesudy, November 20	
09:00-10:30	WS07-1
W07-001 F	Exploring Cross-Disciplinary Education: Enhancing Science Learning with Digital Picture Books Yan-Yu JAU and Joni Tzuchen TANG
W07-002 F	Methods of Balancing Model Explainability and Performance in Identifying At-Risk Students Tiffany T.Y. HSU, Owen LU, and Brendan FLANAGAN
10:50-12:20	WS07-2
W07-003 F	Effects of the Self-Regulated Learning and Motivation on Learning Achievements of the Programming Courses Mu-Sheng CHEN and Ting-Chia HSU
W07-004 F	GazeViz: A Web-Based Approach for Visualizing Learner Gaze Patterns in Online Educational Environment Education DAVALOS, Namrata SRIVASTAVA, Yike ZHANG, Amanda GOODWIN, and Gautam BISWAS



WS08: The 12th Workshop on Technology-Enhanced STEM Education (TeSTEM Workshop)

09:00-10:30	WS08-1
W08-001 F	Novice Programmers' Saccadic Patterns in Error Message Comprehension and Syntax Error Identification Caren PACOL, Maria Mercedes RODRIGO, and Christine Lourrine TABLATIN
W08-004 F	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, and Sasipim POOMPIMOL
W08-005 S	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, and Antuni WIYARSI
10:50-12:20	WS08-2
W08-002 F	Predicting Emotional Impact on Peer review, Peer assessment, and Self-Assessments Using Deep Learning and NLP in STEM Education Pascal Muam MAH
W08-008 F	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, and Ari Syahidul SHIDIQ
W08-010 S	Fostering TPACK Self-Efficacy among Pre-Service Chemistry Teachers: A Case Study from Indonesia Anggiyani Ratnaningtyas Eka NUGRAHENI, and Niwat SRISAWASDI



WS08: The 12th Workshop on Technology-Enhanced STEM Education (TeSTEM Workshop)

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13:20-14:50	WS08-3	
W08-003 F	Math Learning Application on Mobile Devices Following the STEAM Educational Model Nguyen Manh Thang and Pham-Duc THO	
W08-011 F	Does Interactive Augmented Reality Enhance Primary Students' Geometric Understanding and Visual-Spatial Skills in Mathematics Learning? Atcharaporn ASSAWAPHUM, Sasivimol PREMTHAISONG, and Pawat CHAIPIDECH	
W08-007 S	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, Murni RAMLI, Sri MULYANI, Hayuni Retno WIDARTI, and NAHADI	
15:10-17:00	WS08-4	
W08-009 F	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, and Deni A. ROKHIMa	
W08-012 F	Exploring the Effect of Marker-Based AR Gamification on Primary Students' Science Concepts and Motivation Pawat CHAIPIDECH, Sasivimol PREMTHAISONG, Phattaraporn PONDEE, and Niwat SRISAWASDI	
W08-006 S	Exploring the Impact of Digital Divide on the Academic Performance of STEM Students in Hybrid Modality May Marie P. TALANDRON-FELIPE and Jundy V. INTAO	



WS09: The 4th Workshop on Innovative Technologies for Enhancing Interactions and Learning Motivation

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09:00-10:30	WS09-1
W09-001 S	AR2: Augmented Reality for Enhanced Reading Comprehension Allan Jay ESTEBAN
W09-002 S	Developing the Interactive Game-based Picture Book "Food Ninja" to Enhance Creativity in Elementary School Students Wen Chun LAN, De Jun MO, and Joni Tzuchen TANG
W09-003 F	An Estimation of Student Well-being Using Experience Sampling Arthur NEBRAO, Jr. and Maria Mercedes RODRIGO
W09-004 S	Exploring the Use of Short Video Social Media for Learning ESL in Indonesia Riska SAPUTRA, Tsaqufal JALILY, and Intan SETIANI
W09-005 S	Narrative Introduction Text Generation Support System According to Reader Preferences Ryusei SHIMONAKA, Kota KUNORI, and Tomoko KOJIRI
W09-007 S	Galvanic Skin Responses and Flow: Insights from Multimodal Learning Analytics in Personal Learning Environment Yu-Lin HO, Yuan-Hsuan LEE, and Jiun-Yu WU
10:50-12:20	WS09-2
W09-006 F	Transforming Student Feedback into Institutional Action Plans: A Data-Driven Approach Arlene Mae CELESTIAL-VALDERAMA
W09-008 F	BioMol DigiGames: An App for the Mastery of Biomolecules Joshua TUMOLVA, John Lorence VILLAMIN, Joselito Christian Paulus VILLANUEVA, and Armando Victor GUIDOTE
W09-009 S	The Era of Learning Programming Through Program: Challenges and Potential of ChatGPT in Revolutionizing High School Programming Education Tzu-Chi YANG
W09-010 S	Code Visualization System for Writing Better Code through Trial and Error in Programming Learning: Classroom Implementation and Practice Shintaro MAEDA, Kento KOIKE, and Takahito TOMOTO
W09-011 S	Optimization of Non-Verbal Information for English Conversation Agents Using Interactive Evolutionary Computation Yuma SHIMOSAKA, Emmanuel AYEDOUN, and Masataka TOKUMARU



WS09: The 4th Workshop on Innovative Technologies for Enhancing Interactions and Learning Motivation

13:20-14:50	WS09-3
W09-012 S	Exploring the Benefits of Strategic Hesitations in Language Learning Robots Ryusei AZUMA, Emmanuel AYEDOUN, and Masataka TOKUMARU
W09-013 S	Zooming In on Educator Well-Being: Exploring Behavior Attributes, Zoom Fatigue, and Burnout Dynamics Kevynn DELGADO, Mary Rose MARTINEZ, Christine Jamela VALSADO, and Ryan EBARDO
W09-014 S	The Effect of Collaborative Anchoring on the Development of Digital Curation Skills Among Nursing College Students Chunhao CHANG
W09-015 F	Enhancing Health Education and Learning Motivation in Primary Students through Augmented Reality and Game-Base Learning: A Case Study Nattapat BUNYUEN, Pawat CHAIPIDECH, and Sasivimol PREMTHAISONG
W09-016 S	Improving Engagement in Museums through Virtual Reality Educational Escape Rooms (VREER): A Framework and Usability Study Eric Cesar E. VIDAL, Jr., Nicko CALUYA, Joan Dominique L. LEE, Kenneth King L. KO, Jed Laszlo O. JOCSON, and Gerick Jeremiah Niño N. GO
W09-017 S	Exploring the Effect of Metacognitive Awareness on University Students' Learning Outcomes in the Metaverse: Evidence from Eye-tracking Data Tinghui WU, Yanjie SONG, and 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 Aboul Hassane CISSE
254	Developing a multimodal learning analytics approach for collaborative learning and metacognitive strategies in virtual learning environments for primary science education Lei TAO and Yanjie SONG
223	Competition and Collaboration: A Multi-Modal Analysis of Cognitive Load and Behavior in Game-based Learning Lishan ZHENG and 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, and 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, and Mohd Zariat Abd RANI
217	OKLM: Open Knowledge and Learner Model Using Educational Big Data Kensuke TAKII, Changhao LIANG, and Hiroaki OGATA
13:20-14:50	DSC-3
248	Exploring the Young Learners' Interactions with AI-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 and Ethel ONG
	Discussion



Student Wing (SW)

14:30-16:30	Student Wing Workshop
	Chair: <i>Prof. Yanjie SONG</i> , 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