Conference Program

AIET 2024

The 2024 5th International Conference on Artificial Intelligence in Education Technology

Barcelona, Spain | July 29-July 31, 2024





TABLE OF CONTENTS

Welcome Message
Conference Committee
Conference Venue 6
Onsite/Online Guidelines
Agenda Overview (July 29)9
Agenda Overview (July 30)
Agenda Overview (July 31)
Introduction of Keynote Speakers
Introduction of Invited Speaker
Onsite Session
Session 1
Session 2
Session 3
Session 4
Session 5
Session 6
Online Session
Session 1
Session 2
Session 324
Conference Delegates 25







Dear Distinguished Delegates,

On behalf of the organizing committee, it is an honor to extend a heartfelt welcome to all attendees of 2024 5th International Conference on Artificial Intelligence in Education Technology, which taking place in University of Barcelona, Spain during July 29-July 31, 2024.

For the past few years, AIET was held successfully in Berlin (2023), Wuhan (2022, 2021). This year, we are excited to announce that AIET 2024 will be held as a hybrid event, offering participants the flexibility to engage either in person or virtually. The conference will insist on providing a platform to share and get the latest insights from every area of Artificial Intelligence in Education Technology.

We are also pleased to share that this year, we received an overwhelming response from researchers and educators worldwide, including Australia, Bulgaria, Canada, China, Germany, Greece, Hong Kong, India, Ireland, Italy, Japan, Macao, Malaysia, Malta, Mexico, Morocco, Netherlands, Oman, Perú, Portugal, Qatar, South Korea, Saudi Arabia, Spain, Sri Lanka, Taiwan, Turkey, UAE, UK, United States and New Zealand. After a rigorous review process, we are proud to announced that 60 submissions are accepted for presentation at this conference, 25 delegates are joining in AIET 2024. In this program, there are 3 keynote speeches, 1 invited speech, 6 onsite sessions and 3 online sessions. A word of special welcome is given to our speakers who are pleased to make contributions to our conference and share their new research ideas with us.

Meanwhile, we'd like to express our sincere gratitude to our fellow members of the organizing committee composed by Advisory Chair, General Chair, General Co-Chairs, Program Chairs, Program Co-chairs, Publicity Chair, Technical Committee for their excellent work in encouraging participation and securing a substantial input of papers from all over the world.

We truly believe all participants will find the discussion fruitfully and will enjoy the opportunity for setting up future collaborations. Wish all of you have an unforgettable and prefect experience in this conference.

We hope you'll have a good time in Barcelona, Spain!

Your sincerely, AIET 2024 Conference Organizing Committee





CONFERENCE COMMITTEE

Advisory Chair

Stylianos Mystakidis, University of Patras, Greece

General Chair

Mario Barajas Frutos, University of Barcelona, Spain

General Co-Chairs

Tim Schlippe, IU International University of Applied Sciences, Germany Cristina Galván, University of Barcelona, Spain

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Edmundo Tovar, Technical University of Madrid, Spain

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Anna Kuwana, Wayo Women's University, Japan
Annop Piyasinchart, King Mongkut's Institute of Technology North Bangkok, Thailand
Bob Barrett, American Public University, United States
Chan Nee Nee, UCSI University, Malaysia







CONFERENCE COMMITTEE

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Felipe Hernández-Rodríguez, Tecnologico de Monterrey, Mexico

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Heba Nuseibeh, Sharjah Education Academy, United Arab Emirates

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Teh Faradilla Abdul Rahman, Univerrsiti Teknologi MARA, Malaysia

Tsao Chun-Ning, the English Department of Chinese Culture University, Taiwan

Tsvetana Stoyanova, University of National and World Economy -Sofia, Bulgaria

Yukari Shirota, Gakushuin University, Japan

Zille Huma Kamal, University of Waterloo, Canada





CONFERENCE VENUE

University of Barcelona (Mundet Campus)

Address: Pg. de la Vall d'Hebron, 171, 08035 Barcelona





Traffic guidance



From Barcelona International Airport (BCN)

1	R (R2N → Φ L3	Take the Train-R2N from Aeroport T2 to Passeig de Gràcia , then change to the metro L3 to Mundet station and walk 270 meters to the university.	47 mins
2	☐ A1 > ◆ L3	Take the Bus-A1 from Aeroport T1 to PI. Espanya , then change to the metro L3 to Mundet station and walk 270 meters to the university.	48 mins
3		Take the Bus-A2 from Aeroport - Terminal C to Pl. Espanya , then change to the metro L3 to Mundet station and walk 270 meters to the university.	50 mins
4	◆ L9S > ◆ L3	Take the Metro-L9S from Aeroport T1 to Zona Universitària, then change to the metro L3 to Mundet station and walk 270 meters to the university.	67 mins







CONFERENCE VENUE



From Barcelona Sants Train Station (Estació Sants)

1	∱ > Ф [13]	From Estació de Sants , walk 300 meters to the metro station Sants Estació and take L3 to Mundet station and walk 270 meters to the university.	30 mins
2	R R2S / R2N >	Take the Train-R2S/R2N from Estació de Sants to Passeig de Gràcia , then change to the metro L3 to Mundet station and walk 270 meters to the university.	30 mins

Conference Room Information - Onsite Participants

Room in Palau de les Heures	Activities	Floor
Auditorium	Keynote Speeches & Invited Speech	Ground Floor
Room 1	Parallel Onsite Session 1~3	1st Floor
Room 2	Parallel Onsite Session 4~6	1st Floor

Conference Room Information - Online Participants

Zoom Meeting ID and Link	Activities
	Keynote Speeches & Invited Speech
840 8371 5995 https://us02web.zoom.us/j/84083715995	Online Session 1
	Parallel Online Session 2
	Online Closing Ceremony
833 3575 4447 https://us02web.zoom.us/j/83335754447	Parallel Online Session 3





ONSITE/ONLINE GUIDELINES

Onsite Guideline

- **Oral Presentation**
- Oral presentation language: English.
- Regular oral presentation: 15 minutes (including Q&A).
- Get your presentation PPT files prepared. Presentations MUST be copied in the conference laptop at least 10 minutes before session starts.
- Conference organizer will provide presentation laptop, USB, projector and screen, laser pointer.
- **Important Notes**
- Please enter the meeting room at least 10 minutes before your session. Your punctual arrival and active involvement will be highly appreciated.
- Please wear your name tag during the conference activities. Lending it to others is not allowed. If you have any companying person, please do inform our staff in advance.
- Please keep all your belongings (laptop and camera etc.) at any time. The conference organizer does not assume any responsibility for the loss of personal belongings.
- Please show name tag and meal coupons when dining.

Online Guideline

- Time Zone: Madrid Time (GMT+2)
- Please attention the time difference.
- ZOOM Download link: zoom
- https://zoom.us/download
- Equipment Needed
- A computer with internet connection and camera.
- Stable internet connection.
- A quiet place and Proper background.
- Test Your Presentation PPTX.
- Date: July 29, 2024
- Prior to the formal meeting, presenters shall join the test room to ensure everything is on the right track. Please check your test time in this program. All the online presenters must attend the test.
- Online Oral Presentation
- > Timing: a maximum of 15 minutes in total, including 2-3 minutes for Q&A. Please make sure your presentation is well timed.
- Please join the meeting room 10 minutes in advance.







Day 1

July 29 | Monday | GMT+2

Online participants only

Time	Activities	Meeting Room
10:00-12:00 14:00-16:00	Equipment Test	Zoom ID: 840 8371 5995 Link: https://us02web.zoom.us/j/84083715995

- Participants who are going to do an online presentation are required to join the Zoom pre-test.
- Please download the Zoom and prepare your presentation slides before you take the pre-test.
- Duration: 2~3 minutes apiece. Free to leave after your rehearsal is done.

Name Setting before Entry!

Keynote Speaker: Keynote-Name Committee: Position-Name Invited Speaker: IS-Name Session Chair: SC-Name Author's Presentation: Paper ID-Name Delegate: Delegate-Name

Onsite participants only

Time	Activities	Location
10:00-16:00	Onsite Sign-up Conference Materials Collections	Ground Floor in Palau de les Heures

University of Barcelona (Mundet Campus) Address: Pg. de la Vall d'Hebron, 171, 08035 Barcelona







Day 2

July 30 | Tuesday | GMT+2 | Onsite

Activities	Morning Conference	Onsite Meeting Room: Auditorium Online Zoom ID: 840 8371 5995	
	Prof. Dr. Mario Baraias Frutos University of I	Barcelona, Spain	
Variaba Cara		de Catalunya (UPC), Spain	
keynote speed		ning Spaces at Edge Computing	
Group Photo 8	& Coffee Break		
Keynote Speed	ch Prof. Dr. Stylianos Mystakidis , University of F	Patras, Greece	
(Online)	Speech Title: Facing the Herculean Dilemma f	or Artificial Intelligence in Education	
Vounata Spaar		ona, Spain	
keynote speed		erfect Symbiosis in AI for Education	
	Assoc. Prof. Dr. Osama Taani, Higher College	s of Technology, UAE	
Invited Speech	Speech Title: The Impact of Artificial Intelliger System	nce on Leadership in UAE Higher Education	
Lunch	Location: University Cantine		
Activities	Parallel Sessions - Onsite Only	Onsite Room 1 (Session 1~3) Onsite Room 2 (Session 4~6)	
Session 1	Session Chair: Lecturer. Luis Daniel Ibáñez, Univers	ity of Southampton, UK	
Coffee Break			
Session 2	Session Chair: Assoc. Prof. Samuel Antonio Rosas N Session Chair: Assoc. Prof. Osama Taani, Higher Co	Melendez, Tecnologico de Monterrey, Mexico lleges of Technology, UAE	
Coffee Break			
Session 3	Session Chair: Prof. Hartwig Hochmair, Florida Inte	rnational University, United States	
Session 4	Session Chair: Prof. Yukari Shirota, Gakushuin Univ	ersity, Japan	
Coffee Break	, , , , , ,		
Session 5	Session Chair: Prof. Alberto Montresor, University	of Trento, Italy	
Coffee Break			
Session 6	Session Chair: Assoc. Prof. Kevin Gold, Boston Univ	ersity, USA	
	Presenters: TA060, TA061, TA097-A, TA042-A, TA0	82, TA303-A	
	Opening Rema Welcome Add Keynote Speed Group Photo & Keynote Speed (Online) Keynote Speed Invited Speech Lunch Activities Session 1 Coffee Break Session 3 Session 4 Coffee Break Session 5 Coffee Break	Opening Remarks Welcome Address Prof. Dr. Fatos Xhafa, Universitat Politècnica Speech Title: Intelligent Affective Edge: eLean Group Photo & Coffee Break Keynote Speech (Online) Speech Title: Facing the Herculean Dilemma f Prof. Dr. Cristina Galván, University of Barcel Speech Title: Serendipities and Pirates: The Pe Assoc. Prof. Dr. Osama Taani, Higher College Invited Speech Speech Title: The Impact of Artificial Intelligen System Lunch Location: University Cantine Activities Parallel Sessions - Onsite Only Topic: "Educational Data Mining and Personalized Intelligen Session Chair: Prof. Ahmed Al Khateeb, King Faisal Session Chair: Lecturer. Luis Daniel Ibáñez, Univers Presenters: TA009, TA017, TA318, TA047, TA098, The Session Chair: Assoc. Prof. Samuel Antonio Rosas Nascion Chair: Assoc. Prof. Osama Taani, Higher Congresenters: TA101-A, TA032-A, TA114-A, TA099, TA Coffee Break Topic: "Generative Artificial Intelligence in Education Session 3 Session Chair: Prof. Hartwig Hochmair, Florida Intelligence in Chair: Prof. Hartwig Hochmair, Florida Intelligent: Ta041, TA067, TA084, TA102-A, TA122 Topic: "Al Chatbots and Intelligent Tutoring System Session 4 Session Chair: Prof. Yukari Shirota, Gakushuin Univ Presenters: TA021, TA040, TA088-A, TA053, TA012 Coffee Break Topic: "Al-Driven Image Processing and Educationa Session 5 Session Chair: Prof. Alberto Montresor, University Presenters: TA101, TA020, TA001, TA036, TA044, TOpic: "Artificial Intelligence Enhanced Learning an Topic: "Arti	







CONFERENCE AGENDA

Day 3

July 31 | Wednesday | GMT+2 | Online

Time	Activities	Online Presentations Only	Session 1 Meeting ID: 840 8371 5995	
10:00-12:00	Session 1	Topic: "Modern Educational Technology an Session Chair: Assoc. Prof. M. Nedim Alpo Turkey	d Educational Innovation" lemir, Intelitics Ltd. And Ankara Bilim University,	
		Presenters : TA050-A, TA062, TA066, TA31	5, TA321-A, TA046, TA076, TA116	
12:00-14:00	Break Time			
Time	Activities	Parallel Sessions-Online Only	Session 2 Meeting ID: 840 8371 5995 Session 3 Meeting ID: 833 3575 4447	
14:00-16:00	Session 2	Topic: "Educational Data Mining and Large Session Chair: Dr. Alexandre St-Vincent Vill (UQAM), Canada		
		Presenters: TA055, TA086, TA007, TA023, T	TA011, TA026, TA091, TA096-A	
		Topic: "Artificial Intelligence and Intelligent	: Virtual Tutors in Education"	
14:00-16:00	Session 3	Session Chair: Lecturer. Aditi Singh, Clevela	nd State University, United States	
		Presenters: TA030, TA121-A, TA113, TA305	s, TA048, TA018-A, TA049, TA022	
			Meeting ID: 840 8371 5995	
16:15-16:30		Closing Ceremor	у	
10.15-10.30		Host: Prof. Dr. Mario Barajas Frutos, University of Barcelona, Spain		









Prof. Dr. Fatos Xhafa Universitat Politècnica de Catalunya (UPC), Spain

Editor in Chief: Elsevier Book Series "Intelligent Data Centric

Systems"

Editor in Chief: Springer Book Series "Data Engineering and

Communication Technologies"

Editor in Chief: Internet of Things; Engineering Cyber Physical

Human Systems, Elsevier

Biography: Fatos Xhafa, PhD in Computer Science, is Full Professor at the Technical University of Catalonia (UPC), Barcelona, Spain. He has held various tenured and visiting professorship positions. He was a Visiting Professor at the University of Surrey, UK (2019/2020), Visiting Professor at the Birkbeck College, University of London, UK (2009/2010) and a Research Associate at Drexel University, Philadelphia, USA (2004/2005). Prof. Xhafa has widely published in peer reviewed international journals, conferences/workshops, book chapters, edited books and proceedings in the field (H-index 62). Prof. Xhafa has an extensive editorial service. He is founder and Editor-In-Chief of Internet of Things - Journal - Elsevier (Scopus and WoS Science) and of International Journal of Grid and Utility Computing, (Scopus and WoS Science). Prof. Xhafa is a member of the IEEE Communications Society, IEEE Systems, Man & Cybernetics Society and Founder Member of Emerging Technical Subcommittee of Internet of Things. His research interests include IoT and Cloud-to-thing continuum computing, massive data processing and collective intelligence, optimization, and machine learning, among others. Please visit:

http://www.cs.upc.edu/~fatos/ and http://dblp.uni-trier.de/pers/hd/x/Xhafa:Fatos

Speech Title: Intelligent Affective Edge: eLearning Spaces at Edge Computing

Speech Time: 10:05-10:45 | July 30, 2024 | GMT+2

Abstract: Recently, Affective Computing has been explored as an important paradigm to support effective online learning. Differently from face-to-face learning, in online learning it is more challenging to inquire the emotional state of learners during the learning processes. The latest advances of Cloud-to-thing continuum computing support the Intelligent Affective Edge, which aims at using the end devices, at the edges of the Internet, to know the emotional state of learners. In this talk, we will discuss some affective computing models in Cloud-to-thing continuum, its challenges and opportunities for the Intelligent Affective Edge, processing and analyzing the IoT data streams in real time to classify learners' emotional states and e-classroom affective state.





KEYNOTE SPEAKER



Prof. Dr. Stylianos Mystakidis University of Patras, Greece

Biography: Dr. Stylianos Mystakidis is an awarded Innovator and Researcher on Educational Technology at the University of Patras, Greece, Adjunct Faculty member at the International Hellenic University and the Hellenic Open University and Visiting Professor at the International Telematic University UNINETTUNO, Italy. His

expertise lies in the intersection of immersive technologies such as metaverse, virtual worlds, VR and AR with instructional design and game-based methods. His name has been included in Stanford University's list of scientists in the field of Education with the most citations of their research work in the world for 2022 (top 2%).

Google Scholar profile: https://scholar.google.com/citations?user=M4yfbJ4AAAAJ.

(Online) Speech Title: Facing the Herculean Dilemma for Artificial Intelligence in Education

(Online) Speech Time: 11:20-12:00 | July 30, 2024 | GMT+2

Abstract: This interactive presentation aims to facilitate education stakeholders, policy makers, managers, instructional designers, developers, educators, and students to tackle the herculean dilemma that they face already and will face repeatedly in the future in the context of artificial intelligence in education. First, the pragmatic dimensions of this metaphorical moral dilemma will be analyzed with tangible examples. Second, strategies, guidelines and resources for a practical and ethical decision-making procedure will be illustrated and proposed for discussion.





KEYNOTE SPEAKER



Prof. Dr. Cristina Galván University of Barcelona, Spain

Biography: Prof. Cristina Galván received her Ph.D. in Education and Society from the University of Barcelona in 2015. Currently, she serves as a Lecturer in Educational Theory in the Digital Society at the University of Barcelona. Dr. Galván is the director of the Virtual Learning Research Group (GREAV), as well as the Virtual Learning and AI, Interactivity, and Accessibility Innovation Group.

Additionally, she oversees the Masters in Digital Learning Environments mediated by Digital Technologies. She also serves on the scientific board of the Q2 Scopus-indexed journal, Digital Education Review.

Speech Title: Serendipities and Pirates: The Perfect Symbiosis in AI for Education

Speech Time: 12:00-12:40 | July 30, 2024 | GMT+2

Abstract: The aspirations of artificial intelligence (AI) include finding solutions to our problems, fulfilling desires, and uncovering what we seek, even if we are unaware of it. Regular use of generative AI (GenAI) can lead to a clear goal and itinerary, or it can result in getting lost in a labyrinth. As the Cheshire Cat in Alice in Wonderland said:

> "Would you tell me, please, which way I ought to go from here?" "That depends a good deal on where you want to get to," said the Cat. "I don't much care where—" said Alice. "Then it doesn't matter which way you go," said the Cat.

Depending on their proficiency with GenAl and their commitment to the subject matter, students may seek unexpected, almost magical outcomes, akin to serendipity. However, this effect, stemming from a superficial learning approach, can lead to the pirate effect. Quoting Jack Sparrow:

"We must embrace the most noble of pirate traditions. We must fight... and then run away."

This translates to using GenAl to search, copy, submit, await a grade, and, if questioned, evade answers and flee. Educators risk focusing solely on the misuse of GenAI instead of on formative academic evaluation.

By examining the serendipity and pirate effects, this paper explores the various symbioses resulting from the use of GenAl in education. It also addresses how new guidelines for GenAl use emphasize digital competence in AI and academic integrity.





INVITED SPEAKER



Assoc. Prof. Dr. Osama Taani Higher Colleges of Technology, UAE

Biography: Osama Taani, PhD, is an esteemed Associate Professor of Mathematics Education at the Higher Colleges of Technology in Abu Dhabi, UAE. Dr. Taani completed his Ph.D. in Mathematics at New Mexico State University.

Dr. Taani's extensive career spans the United States and the UAE, where he has excelled in roles that required deep expertise in mathematics education, curriculum development, and the

management of educational accreditation processes. His tenure at Plymouth State University in the U.S. as Chair of the Math Department and Director of Math Education Graduate Programs was marked by strategic curriculum innovations and effective management of accreditation requirements. Currently, at the Higher Colleges of Technology, Dr. Taani imparts his knowledge through courses in primary education, early childhood education, and teaching practicum. He plays a crucial role in shaping the educational experiences of future educators, emphasizing dynamic learning environments and interaction-based teaching. Beyond teaching, he is pivotal in curriculum design and the development of educational assessments, continually enhancing the quality of education provided.

Dr. Taani is a certified online educator and has been recognized for his contributions to mathematics education through various awards and honors, including the Ed and Marilyn Wixson Endowed Professorship.

Speech Title: The Impact of Artificial Intelligence on Leadership in UAE Higher Education System

Speech Time: 12:40-13:10 | July 30, 2024 | GMT+2

Abstract: Artificial Intelligence shows a great potential to improve the leadership within the higher education institutions including Admission Directors, Human Resource Directors, Deans, University Presidents, Chief Academic Officers, and Department Heads. The Key findings of a mixed method study conducted in UAE reveal that AI-powered data analytics significantly improve data-driven decision-making and automate routine administrative tasks, positively affecting leadership effectiveness. Although Intelligent Tutoring Systems (ITS) and AI virtual assistants strongly correlate with student engagement and resource allocation, their direct impact on leadership is not statistically significant. The qualitative insights emphasize the advantages of personalized learning platforms, adaptive learning systems, instant feedback, Al-powered smart systems, and advanced data analytics in optimizing resource allocation and making evidence-based decisions.

The study concludes that AI has the potential to transform leadership in HEIs by enhancing efficiency and providing personalized support to students and faculty. However, it also identifies challenges such as ethical concerns, technology dependency, and balancing Al-driven with human-based decisions. Recommendations include implementing AI data analytics for personalized guidance, integrating AI-driven predictive analysis in enrollment and admissions, and utilizing AI virtual assistant tools to improve decisionmaking efficiency. Future research should explore other Middle Eastern countries, investigate emerging technologies like augmented and virtual reality, and address AI integration challenges to better understand its impact on transformational leadership in higher education.







Topic: "Educational Data Mining and Personalized Recommendation System"

Time: 14:30-16:00 | July 30 | Tuesday

Session Chair: Prof. Ahmed Al Khateeb, King Faisal University, Saudi Arabia

Session Chair: Lecturer. Luis Daniel Ibáñez, University of Southampton, United Kingdom

Onsite Meeting Room: Room 1

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TA009	Al-based Recommender System for Employee-Project Matching of IT Specialists Vanessa Mueller, Kristina Schaaff
14:30-14:45	Presenter: Kristina Schaaff, IU International University of Applied Sciences, Deutschland
TA017 14:45-15:00	LLM-Powered Reading Aid for Visually Impaired Online Learners Zilin Li, Shaofei Shen, Zhilong Xie
	Presenter: Zhilong Xie, Southwestern University of Finance and Economics, China
	Holt-Winters Additive model to forecasting academic performance. A case of middle school
TA318	Axel Zevallos Aquije, Rosa Salas Bolaños, Alvaro Maravi Cardenas and Anneliese
15:00-15:15	Zevallos Aquije
	Presenter: Axel Zevallos Aquije, César Vallejo University, Perú
	Al-Based Student Emotion and Engagement Level Detection Framework
TA047	Chinar Amit Deshpande
15:15-15:30	Presenter: Chinar Amit Deshpande, Aditya English Medium School, Pune, India
	Natural Language Processing In Higher Education Institutions: a bibliometric analysis
	using Scopus database
TA098	AIT OUFKIR Abdellah, MOHIB Zineb, ADRDOUR Mohamed
15:30-15:45	
	Presenter: AIT OUFKIR Abdellah, Ecole Nationale de Commerce et de Gestion
	Université Ibn Zohr, Morrocco
	Interactive Online Education Using LLMs: Foundations and Applications
TA019	Zhilong Xie, Zilin Li, Jiwen Huang, Rong Xing, Qing Li
15:45-16:00	Dracantary Cing Li Couthy actory University of Finance and Feanuries China
	Presenter: Qing Li, Southwestern University of Finance and Economics, China







PARALLEL ONSITE SESSION 2

Topic: "Educational Metaverse and Virtual Reality in Education"

Time: 16:20-17:50 | July 30 | Tuesday

Session Chair: Assoc. Prof. Samuel Antonio Rosas Melendez, Tecnologico de Monterrey, Mexico

Session Chair: Assoc. Prof. Osama Taani, Higher Colleges of Technology, UAE

Onsite Meeting Room: Room 1

For each presenter, please convivour presentation	n PPT to the conference laptop before the session start, and stay onsite for the whole session.
FOI Each Diesenter, Diease CODY Your Diesentatio	ILEE LO LITE CONTENENCE TADION DEFOTE LITE SESSION STALL, AND STAV OUSILE TOLLITE WHOLE SESSION.

TA101-A 16:20-16:35	SEM Evaluation and Future Development of Satisfaction of Learning Centers in Chinese University Libraries in the Context of Metaverse Li Chen, Daoke Liu, Ling Kai Presenter: Li Chen, Anhui Jianzhu University, China
TA032-A 16:35-16:50	The Upsurge of the Metaverse in Educational Settings: an Innovative Meta-analysis Study Ahmed A. Al Khateeb Presenter: Ahmed Al Khateeb, King Faisal University, Saudi Arabia
TA114-A 16:50-17:05	Assessing Metaverse Platforms for Educational Use: Benefits, Challenges, and Practical Implications Jaehong Kim, Joung-Huem Kwon, Jiseob Park
	Presenter: Jaehong Kim, Korea University of Technology and Education, South Korea
TA099 17:05-17:20	Using Virtual Reality (VR) to Enhance Student Learning of Construction Systems in Civil Engineering Education Fredy Alonso Diaz Duran Presenter: Fredy A. Díaz-Durán, Tecnológico de Monterrey, México
TA052-A 17:20-17:35	Engaging Students in Learning Version Control Systems: GITainment - A Serious Game Approach to Bridging Theory and Practice Tzu-Yuan Chen, Hsi-Min Chen, Yen-Tse Hsueh Presenter: Hsi-Min Chen, Feng Chia University, Taiwan
TA119 17:35-17:50	An Interdisciplinary Approach to Enhancing AI Literacy in K-12 Science Education: Curriculum Integration and Pedagogical Framework Yao Shi, Rongkeng Liang, Yong Xu Presenter: Yao Shi, South China University of Technology, China





PARALLEL ONSITE SESSION 3

Topic: "Generative Artificial Intelligence in Education"

Time: 18:10-19:40 | July 30 | Tuesday

Session Chair: Prof. Hartwig Hochmair, Florida International University, United States

Onsite Meeting Room: Room 1

TA041 18:10-18:25	The Evolution of Learning: Assessing the Transformative Impact of Generative AI on Higher Education Stefanie Krause, Nikhil Ubhe, Bhumi Hitesh Panchal Presenter: Stefanie Krause, Harz University of Applied Sciences, Germany
TA067 18:25-18:40	On Implementing an Effective Intelligent Tutor and Its Impact on Teaching and Learning Experiences Jialin Yang, Michael Cooper-Stachowsky, Zille Huma Kamal Presenter: Zille Huma Kamal, University of Waterloo, Canada
TA084 18:40-18:55	Transforming Perceptions: Pedagogical Efficacy of Generative Artificial Intelligence in Art-Tech Education Mario Alberto Caudillo Melgoza Presenter: Mario Alberto Caudillo Melgoza, Tecnologico de Monterrey, Mexico
TA102-A 18:55-19:10	A Phenomenological Study of Southeast Asian Instructors' Use of AI Technologies on their Academic Practices in Higher Education Nee Nee Chan Presenter: Nee Nee Chan, UCSI University, Malaysia
TA122 19:10-19:25	A Framework for Writing Effective Prompts: Leveraging Generative Artificial Intelligence for Teaching Excellence Mohammad AL-Smadi, Rawand ALFUGAHA Presenter: Rawand ALFUGAHA, Lusail University, Qatar
TA094 19:25-19:40	TeacherTec: The Potentials and Limitations of AI in Educational Chatbots from Mexican Undergraduates' Perspective Samuel Antonio Rosas-Meléndez, Guillermo Manuel Chans, Paola Marián López- Velázquez, Felipe Miguel Álvarez-Siordia, Claudia Camacho-Zuñiga Presenter: Samuel Antonio Rosas Melendez, Tecnologico de Monterrey, Mexico







Topic: "AI Chatbots and Intelligent Tutoring Systems"

Time: 14:30-16:00 | July 30 | Tuesday

Session Chair: Prof. Yukari Shirota, Gakushuin University, Japan

Onsite Meeting Room: Room 2

Chatbots - new opportunities for digitalizing the learning processes in universities Luben Boyanov, Tsvetana Stoyanova, Daniel Parushev Presenter: Tsvetana Stoyanova, University of National and World Economy -Sofia,
Bulgaria
Which Chatbot is the Most Empathic Teacher? Timo Kühbacher, Tim Schlippe, Kristina Schaaff
Presenter: Kristina Schaaff, IU International University of Applied Sciences, Germany
The Effect of an Interactive Chatbot on Receptive and Productive Vocabulary
Knowledge
Ali Mohammad Al-ghaithi
Presenter: Ali Al-ghaithi, Sohar University, Oman
On the Helpfulness of a Zero-Shot Socratic Tutor
Kevin Gold, Shuang Geng
Proceeday Verin Cold Destan University, USA
Presenter: Kevin Gold, Boston University, USA Chatbots in the Classroom: A Study on Al-Assisted Learning in a Digital Mapping
Course
Hartwig Hochmair, Zhaohui Fu
Presenter: Hartwig Hochmair, Florida International University, United States
Presenter: Zhaohui Fu, Florida International University, United States
Generic Architecture of Digital Assistant for Freshman Onboarding Process
Rostislav Yavorskiy, Oleg Lavrov, Nikolai Tatarovskii
Presenter: Rostislav Yavorskiy, Cifrium, Spain





PARALLEL ONSITE SESSION 5

Topic: "Al-Driven Image Processing and Educational Innovation"

Time: 16:20-17:50 | July 30 | Tuesday

Session Chair: Prof. Alberto Montresor, University of Trento, Italy

Onsite Meeting Room: Room 2

TA101	Revolutionizing Creativity: Unleashing the Power of AI in Upper Elementary Art Education Jane Brumfield Montero
16:20-16:35	Presenter: Jane B. Montero, Dexter Community Schools, Michigan, United States
TA020 16:35-16:50	Development of User-Customized Online Teaching Technology based on GPT, Enhanced by Generative Al-based Motion Recognition Taek-Gwon Nam, Kyoung-Geun Cho, Zahra-Batool Jaffrey, Dong-Sung Pae, Seo-Young Won, Tae-Koo Kang
	Presenter: Tae-Koo Kang, Sangmyung University, Republic of Korea
TA001 16:50-17:05	Generative AI in financial mathematics problem-solving: Integration of linguistic and symbolic processing functions Yukari Shirota, Anna Kuwana, Basabi Chakraborty
	Presenter: Yukari Shirota, Gakushuin University, Japan
TA036 17:05-17:20	Exploring Artificial Intelligence for Topology Optimization in an Engineering Course HECTOR RAFAEL MORANO OKUNO, GUILLERMO SANDOVAL BENITEZ
	Presenter: HECTOR RAFAEL MORANO OKUNO, Tecnologico de Monterrey, School of Engineering and Science, Mexico
TA044 17:20-17:35	Guiding Art Education with AI: Predicting Subjective Evaluations and Generating Feedback for Pencil Still-life Drawing Yoshiko FURUSHO, Kazunori KOTANI, Prarinya SIRITANAWAN
	Presenter: Yoshiko FURUSHO, Yokohama University of Art and Design, Japan
TA120-A 17:35-17:50	Drone Photogrammetry and AI for Analyzing Sociocultural Contexts and Segregated Areas JORDI RÁBAGO
	Presenter: Jordi Rábago, ITESM, Mexico







PARALLEL ONSITE SESSION 6

Topic: "Artificial Intelligence Enhanced Learning and AI Education"

Time: 18:10-19:40 | July 30 | Tuesday

Session Chair: Associate Prof. Kevin Gold, Boston University, USA

Onsite Meeting Room: Room 2

For each presenter,	please copy your presentation PPT to the conference laptop before the session start, and stay onsite for the whole session.
	Re-imagining Education Through AI: Students Insights from DigiEduHack
TA 252	Giulia Paludo, Carlotta Vielmo, Francesca Fiore, Agnese Del Zozzo, Gisella Decarli,
TA060	Alberto Montresor, Milena Bigatto
18:10-18:25	
	Presenter: Giulia Paludo, University of Trento, Italy
	Application of Artificial Intelligence (AI) in Higher Education (HE) for Enhanced
TA061	Learning and Employability
	Rachel John Robinson
18:25-18:40	
	Presenter: Rachel John Robinson, IU University of Applied Sciences, Germany
	Enhancing Inclusive Education through AI: Insights and Outcomes from the IA-ME
TA097-A	Project in Spain
18:40-18:55	Anna Trifonova, Mariela Destefano, Mario Barajas
16.40-16.55	
	Presenter: Anna Trifonova, CreaTIC Academy, España
	Al for Acclimation: Assisting Displaced Students in Refugee Facilities through Activity-
TA042-A	Driven Lessons
18:55-19:10	Shuhan Li, Amalia Toutziaridi, Erica Hooshi, Eryka Wilson, Roozbeh Aliabadi
10.55 15.10	
	Presenter: Amalia Toutziardidi, Massachusetts Institute of Technology, United States
	Undergraduate University AI Education: A Survey
TA082	Ioannis Pitas, Zografia Sotireli, Christos Papaioannidis, Alexandros Zamioudis
19:10-19:25	
	Presenter: Alexandros Zamioudis, Aristotle University of Thessaloniki, Greece
TA303-A 19:25-19:40	Obstacles of Applying Total Quality Management to Public Education Schools in the
	State of Kuwait
	Maryam AbdulMutalab
	Presenter: Maryam AbdulMutalab, Ministry of Educatuin, Kuwait





ONLINE SESSION 1

Topic: "Modern Educational Technology and Educational Innovation"

Time: 10:00-12:00 | July 31 | Wednesday | GMT+2

Session Chair: Associate Prof. M. Nedim Alpdemir, Intelitics Ltd. And Ankara Bilim University, Turkey

Online Meeting Room ID: 840 8371 5995

For each presenter, please enter the meeting room 10 minutes before session start, and stay online during the session.

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	Integrating Krashen's Theories and Emerging Technologies in ESL Learning: A Pathway to Innovation
TA050-A 10:00-10:15	Vincent Hai Lin, Julius Yls
	Presenter: Vincent Hai Lin, Academy EX, Auckland, New Zealand
	Presenter: Julius Yls , MetaAi Project, Auckland, New Zealand
TA062	An Educational Mode for Big Data Management and Application Major Development and the Evaluation based on AHP
TA062 10:15-10:30	Rui Liu, Yongjian Ma, He Liu
	Presenter: Yongjian Ma, Central University of Finance and Economics, China
	Introducing Collective Computing in K-12 through an Ambient Intelligence Activity
TA066 10:30-10:45	Sara Guerreiro-Santalla, Alejandro Romero, Francisco Bellas
	Presenter: Sara Guerreiro-Santalla, Universidade da Coruña, Spain
	Assessing the Quality Factors affecting E-Learning: A Comparative Study of South African
	Universities and Saudi Higher Education
TA315	Arwa Bamaga, Bassam Zafar, Sotirios Terzis
10:45-11:00	
	Presenter: Arwa Khamis Ali Bamaga, King Abdulaziz University; University of Strathclyde, Saudi
	Arabia
	Examining the Contradictions in Beginning Teacher Identity Development from the Perspective
TA321-A	of Activity Theory
11:00-11:15	Xinyi Shen, Xuan Wang
11.00-11.13	
	Presenter: Xinyi Shen, Northwestern Polytechnical University, China
	Unveiling the Relationship across Students' feedback, Video Viewing Logs and Achievement in
TA046	Video-Based Learning
11:15-11:30	Giacomo Cassano, Nicoletta Di Blas, Marco ver Verzeni
	Presenter: Giacomo Cassano, Politecnico di Milano, Italy
	Exploring Factors Influencing the Integration of AI Drawing Tools in Art and Design Education
TA076	Hongbo GE, Xiaolong CHEN
11:30-11:45	Presenter: Hongbo GE, Faculty of Humanities and Social Sciences, Macao Polytechnic
	University, Macao, China
	Evaluation of ChatGPT4's Effectiveness in its Client role-play for Counselling Education
TA116	Raja Kannusamy, Christy Collis
11:45-12:00	
	Presenter: Raja Kannusamy, Australian Institute of Professional Counsellors, Australia







PARALLEL ONLINE SESSION 2

Topic: "Educational Data Mining and Large Language Models"

Time: 14:00-15:45 | July 31 | Wednesday | GMT+2

Session Chair: Session Chair: Dr. Alexandre St-Vincent Villeneuve, Université du Québec à Montréal

(UQAM), Canada

Online Meeting Room ID: 840 8371 5995

	KNIGHT: Machine Learning Methods to Enhance Individualized Learning
TA055	Muddsair Sharif, Dieter Uckelmann
14:00-14:15	
	Presenter: Muddsair Sharif, University of Applied Sciences Stuttgart, Germany
	AI-enabled Classroom Conversation Analysis: Intelligent Positioning of Teacher and Student
TA086	Roles
14:15-14:30	Xuan Liu, Zhong Sun
14:15-14:30	
	Presenter: Xuan Liu, College of Information Engineering, Capital Normal University, China
	Predicting Grades in the "Introduction to Clinical Databases" Course: Dataset Creation,
TA007	Pipeline Design, and Model Evaluation
14:30-14:45	Inês Domingues
	Presenter: Inês Domingues, Polytechnic Institute of Coimbra, Portugal
	Abstractive Summarization of Lectures and Lecture Segments Transcripts with BART
TA023	Yaser Haitham Alesh, Meriem Aoudia, Osama Mohamed Abdulghani, Omar Ibrahim Alali,
14:45-15:00	Manar Abu Talib
	Presenter: Yaser Haitham Alesh, University of Sharjah, United Arab Emirates
	Enhancing Career Guidance through Intent Mining with Large Language Models
TA011	MOHIT BHATNAGAR
15:00-15:15	Werm Britisher it
	Presenter: Mohit Bhatnagar, O.P. Jindal Global University, India
	An Automated Hybrid Exam Evaluation Framework for Textual Courses Using AI
TA026	M. Nedim Alpdemir, Yusuf Alpdemir, Sakup Doğan
15:15-15:30	
	Presenter: M. Nedim Alpdemir, Intelitics Ltd. And Ankara Bilim University, Turkey
	Comparing the Performance of LLMs in RAG-based Question-Answering: A Case Study in
TA091	Computer Science Literature
15:30-15:45	Ranul Navojith Dayarathne, Uvini Ayathma Ranaweera, Upeksha Ganegoda
25.50 15.45	
	Presenter: Ranul Navojith Dayarathne, University of Moratuwa, Sri Lanka
	From Challenges to Success: AI-driven Strategies for Student Empowerment in Special
TA096-A	Education Programs Alexandre St-Vincent Villeneuve, Maud Remy



Presenter: Alexandre St-Vincent Villeneuve, Université du Québec à Montréal (UQAM), Canada



PARALLEL ONLINE SESSION 3

Topic: "Artificial Intelligence and Intelligent Virtual Tutors in Education"

Time: 14:00-16:00 | July 31 | Wednesday | GMT+2

Session Chair: Lecturer. Aditi Singh, Cleveland State University, United States

Online Meeting Room ID: 833 3575 4447

For each presenter, please enter the meeting room 10 minutes before session start, and stay online during the session.

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TA030 14:00-14:15	Learner's Permit: Accessible Artificial Intelligence through an Educational Game Joyce Yuan, Henry Lieberman Presenter: Joyce Yuan, Massachusetts Institute of Technology, United States
TA121-A 14:15-14:30	Leveraging Artificial Intelligence in Healthcare Education: Strategic Objectives and Implementation Sang E. Park Presenter: Sang E. Park, Harvard School of Dental Medicine, United States
TA113 14:30-14:45	Encouraging Responsible Use of Generative AI in Education: A Reward-Based Learning Approach Aditi Singh, Abul Ehtesham, Saket Kumar, Gaurav Kumar Gupta, Tala Talaei Khoei Presenter: Aditi Singh, Cleveland State University, United States
TA305 14:45-15:00	Toward the Application of the Problem-based Learning Paradigm into the Instruction of Business Technology and Innovation Maikel Leon-Espinosa Presenter: Maikel Leon-Espinosa, University of Miami, United States
TA048 15:15-15:30	Empowering Cognitive Skills of Children with ASD throughout an Intelligent Virtual-Tutor: State of the Art Miriam Janet Cervantes López, Jaime Cruz Casados, Richard de Jesús Gil Herrera Presenter: Miriam Janet Cervantes López, Universidad Autónoma de Tamaulipas, México
TA018-A 15:30-15:45	Evaluating a Middle School Writing Tool through Continuous Impact Evaluation John Hutson, Amanda Jensen, Yiqiu Yan, Mandy Figueroa Presenter: John Hutson, ETS, United States
TA049 15:45-16:00	An Accurate Classification Method of Competitive Math Problems Yourui Shao Presenter: Yourui Shao, BASIS Independent Silicon Valley, United States







CONFERENCE DELEGATES

The following list of audience delegates is based on the order of registration time.

Evelyn Sjafii United States Miguel Acevedo OpenCode Inc., United States Madeleine Lundberg Mälardalen University, Sverige Alberto Montresor University of Trento, Italy Agnese Del Zozzo University of Trento, Italy Francesca Fiore University of Trento, Italy Ingrid Fawcett SD61 Victoria BC, Canada SHADRACH KASH-ABBEY BANKS, GHANA Carlotta Vielmo University of Trento, Italy Carmel Azzopardi University of Malta Junior College, Malta Marthese Azzopardi University of Malta Junior College, Malta Maher Ghalayini St. Lawrence College, Canada Sergio Araneda Caveon, United States Zineb MOHIB Ibn Zohr University, Morocco Mohamed ADRDOUR Ibn Zohr University, Morocco Houfa SHEN Tsinghua University, China Luis Daniel Ibáñez University of Southampton, United Kingdom Fabrizio Cacicia Italian Air Force, Italy Raffaele Capece Italian Air Force, Italy Fredrik Jeanson Mälardalen University, Sweden Ingemar Haglund Mälardalen University, Sweden Luis Medina-Gual Universidad Iberoamericana, Mexico Ayse Ulgen Nottingham Trent University, United Kingdom Zhang Kan Naval Engineering University, China		
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Zhang Kan Naval Engineering University, China	Luis Medina-Gual	Universidad Iberoamericana, Mexico
	Ayse Ulgen	Nottingham Trent University, United Kingdom
Jungang Du Naval Engineering University, China	Zhang Kan	Naval Engineering University, China
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