CONFERENCE PROGRAM

ICETC The 15th International Conference on Education Technology and Computers

ICDLE The 14th International Conference on Distance Learning and Education

University of Barcelona, Barcelona, Spain | September 26-28, 2023

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ICETC

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Welcome Message

On behalf of the organizing committee, it is an honor to extend a heartfelt welcome to all attendees of the 15th International Conference on Education Technology and Computers (ICETC 2023) and the 14th International Conference on Distance Learning and Education (ICDLE 2023), both taking place in the University of Barcelona, Spain during September 26-28, 2023.

I am delighted to have you join the momentous events dedicated to exploring the intersections of education, technology, and innovation. This year's conferences are not only about sharing insights but also about envisioning a future where technology acts as a catalyst for transformative learning experiences.

I am excited to announce that ICETC 2023 and ICDLE 2023 will be held as a hybrid event, offering participants the flexibility to engage either in person or virtually. This inclusive approach ensures that the wealth of knowledge and expertise shared during the event will reach a diverse global audience.

I am also pleased to share that this year, we received an overwhelming response from researchers and educators worldwide. We received a total of 280 submissions from countries and regions around the globe, including Spain, China, the United States, Mexico, Germany, Canada, Australia, the Czech Republic, Turkey, and many others.

After a rigorous review process, I am proud to announce that 109 papers have been accepted for presentation at ICETC 2023 and ICDLE 2023. These selected contributions reflect the high-quality research and innovation that our conferences aim to foster.

Amidst the historic and captivating backdrop of Barcelona, the conferences will feature an array of enlightening sessions, including keynote speeches, invited speeches, and research paper presentations. Additionally, the events present an excellent opportunity to network with fellow educators, researchers, and practitioners who share a passion for innovation in education.

As you embark on this enriching journey, you are strongly encouraged to embrace the ideas, forge connections, and seize the opportunities that ICETC 2023 and ICDLE 2023 offer. Let us collectively shape the future of education through the lens of technology and innovation.

Once again, welcome to Barcelona, welcome to the future of education! I look forward to the vibrant discussions and transformative ideas that will emerge from our time together.

Warm Regards,

Conference Chair Prof. Mario Barajas Frutos, University of Barcelona, Spain

Onsite Conference Notice

Conference Venue



Mundet Campus, University of Barcelona Address: Pg Vall d'Hebron, 173, Montbau, Horta-Guinardó, Barcelona, Spain

Located in the privileged environment of the Collserola foothills, the Mundet Campus of the University of Barcelona includes various faculties and entities of great social importance.

The Mundet Campus, of the University of Barcelona, encompasses several faculties and important social entities. Specialized in Pedagogy, Psychology and Teacher Training, the campus also integrates the School of Hospitality and Tourism and the Institute of Educational Sciences as attached centers.

Transportation



How to reach Campus Mundet

- FROM THE AIRPORT

By taxi: A taxi from the airport to the hotel will cost you between 35 and 40 euros (depending on the hour) and will take about 25 minutes.

Airport Suttle BUS: Take the "Aerobus", stop in Plaza Catalunya, then pick the Metro, Line 3.

- FROM THE CITY CENTER (PLAZA DE CATALUNYA)

By METRO: Line 3 (Green colour), direction Trinitat Nova, stop MUNDET. The Metro, from Plaza Catalunya till Mundet takes 20 minutes.

How to reach the venue "Palau de les Heures" from Metro stop MUNDET

You can walk from the Metro stop (10 minutes up to the hill), or pick a shuttle bus till the last bus stop (the second).

Info on transportation:

- <u>https://www.tmb.cat/en/home</u>
- https://aerobusbarcelona.es/?lang=en

Hotel Recommendation

Barcelona is a very touristic place. The most convenient is to choose a Hotel around Metro Line 3 (use options in maps.google.com, or similar), although other options are possible since transportation is very good (public transportation, taxi, etc)

Hotel very near campus (5 minutes): Hotel Alimara http://www.alimarahotel.com/

- University dormitory very near campus, AGORA BCN RESIDENCIA
Web: agorabcn.com/en
Address: Passeig dels Castanyers, 21 08035 Barcelona
Tel: +34.93.166.90.00
email: agoraresidents@cett.cat
* AGORA DOES NOT BELONG to the University of Barcelona, and should be booked individually.

Note: The organizing committee will not provide accommodation for the delegates. You are suggested to make the room reservation in advance.

Conference Rooms Information

Room in Palau de les Heures	Activity	Floor
Auditorium	Keynote Speeches	Ground Floor
Room 11	Invited Speeches, Onsite Session 1 & 4	1st Floor
Room 12	Onsite Session 2 & 5	1st Floor
Room 13	Onsite Session 3 & 6	1st Floor

Name Badge

For security purposes, delegates, speakers, exhibitors and staff are required to wear their name badge to all sessions and social functions. Lending your participant card to others is not allowed. Entrance into sessions is restricted to registered delegates only. If you misplace your name badge, please ask the staff at the registration desk to arrange a replacement.

Gentle Reminder

• Please ensure that you take all items of value with you at all times when leaving a room. Do not leave bags or laptops unattended. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants.

• Accommodation is not provided. Delegates are suggested make early reservation.

• Please show the badge and meal coupons when dining.

Online Conference Notice

Platform: Zoom

Download Link: https://zoom.us/download

Sign In and Join

*Join a meeting without signing in.

A Zoom account is not required if you join a meeting as a participant, but you cannot change the virtual background or edit the profile picture.

*Sign in with a Zoom account.

All the functions are available.

Time Zone

UTC+2 Central European Summer Time (CEST) *You're suggested to set up the time on your computer in advance.

Online Rooms Information

Online Room	Meeting ID	Link	Passcode
Room A	893 3215 2596	https://us02web.zoom.us/j/89332152596	2023
Room B	889 9382 6644	https://us02web.zoom.us/j/88993826644	2023

*Please use the Passcode: 2023 to enter the meeting room.

Zoom Testing Before Online Conference

Morning, Tuesday, September 26, 2023 (UTC+2)			
Online Room A: 893 3215 2596 Passcode: 2023		Committee / Keynote / Invited Speakers	
07:00-12:00	Online Room B: 889 9382 6644 Passcode: 2023	Authors / Listeners	

1. You can download the <u>virtual background</u> here.

2. Prior to the formal conference, presenter shall join the test room to make sure everything is on the right track

3. Note: Please rename your Zoom Screen Name in below format before entering meeting room.

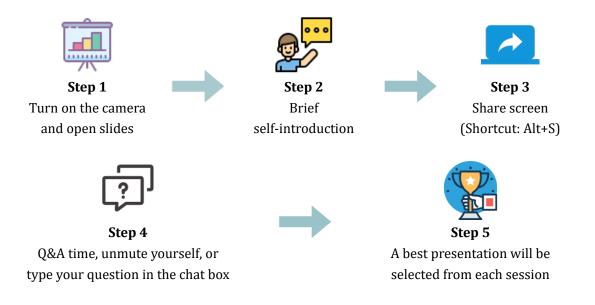
The 15th International Conference on Education Technology and Computers

The 14th International Conference on Distance Learning and Education (ICDLE 2023)

September 26-28, 2023

Role	Format
Conference Committee	Position-Name
Conference Committee	e.g.: Conference Chair-Prof. Mario Barajas Frutos
Keynote/ Invited Speaker	Position-Name
	e.g.: Keynote Speaker-Prof. Matthew Ohland
Author	Session Number-Paper ID-Name
Author	e.g.: S1-ED0001-Name
Listener	Listener-Name

Presentation Process by Zoom Meeting



About Presentation

• Every presenter has 15 minutes, including Q & A. Each presentation should have at least TEN minutes.

• The best presentation certificate and all authors' presentation certificates will be sent after conference by email.

• It is suggested that the presenter email a copy of his / her video presentation to the conference email box as a backup in case any technical problem occurs.

Environment & Equipment Needed

- A quiet place; Stable Internet connection; Proper lighting and background
- A computer with internet and camera; Earphone

Conference Recording

• We'll record the whole conference. If you do mind, please inform us in advance. We'll stop to record when it's your turn to do the presentation.

• The whole conference will be recorded. It is suggested that you should dress formally and we appreciate your proper behavior.

* The recording will be used for conference program and paper publication requirements. It cannot be distributed to or shared with anyone else, and it shall not be used for commercial nor illegal purpose.

Conference Agenda

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Tuesday, September 26, 2023

07:00-12:00	Zoom Testing Before Online Conference
11:00-18:00	Onsite Registration & Materials Collection
11.00-10.00	Venue: Ground Floor in Palau de les Heures

Wednesday, September 27, 2023

	Oper	ning Ceremony & Keyno	ote Speeches
Onsite Room: Auditorium			
	Online Ro	oom A: 893 3215 2596	(Passcode: 2023)
	Chair – Prof. Mario	Barajas Frutos , Unive	ersity of Barcelona, Spain
09:00-09:05	Welcome Address -	Prof. Mario Barajas F	rutos , University of Barcelona, Spain
09:05-09:15	Opening Remark –	Prof. Matthew Ohland	, IEEE Fellow, Purdue University, USA
09:15-10:00	Keynote SpeechProf. Matthew Ohland, IEEE Fellow, Purdue University, USASpeech Title: Exploring the Efficacy of ChatGPT in AnalyzingStudent Teamwork Feedback with an Existing Taxonomy		
10:00-10:30	Group Photo & Coff	ee Break	
10:30-11:15	Keynote Speech (Online)	Prof. Chronis Kynigos , National and Kapodistrian University of Athens, Greece Speech Title: Constructionist Tools for Computational Thinking	
11:15-12:00	Keynote Speech (Online)	Prof. Dragan Gasevic , Monash University, Australia Speech Title: Generative AI: Opportunities and Challenges for Education	
12:00-14:00	Lunch		
		Invited Speeche	5
	Onsite Room: Room 11 Online Room A: 893 3215 2596 (Passcode: 2023)		Online Room B: 889 9382 6644 (Passcode: 2023)
	Chair – Dr. Marc Fuertes , University of Barcelona, Spain		Chair– Assoc. Prof. Fenghua Li , Northeastern University, China
14:00-14:25	Dr. Vinh To , University of Tasmania, Australia Speech Title: Pedagogical Challenges in Online Teaching Faced by Academics in Southeast Asia during COVID-19		Assoc. Prof. Siti Hajar Halili (Online), Universiti Malaya, Malaysia Speech Title: Embracing Open Badge Learning in Education Setting

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14:25-14:50 14:50-15:15	Liverpool, UK Speech Title: Inv	nail, University of vestigating Teachers' Its Impact On their n	Assoc. Prof. Bo Qin (Online), Shenyang Jianzhu University, ChinaSpeech Title: To Explore the Effects of Virtual Reality in Vocational Education and TrainingMr. PiergiorgioGuarini (Online), University of Foggia, ItalySpeech Title: The Development of a Training to Enhance Italian Special Needs Teachers' Information and Communication Technologies (ICT) Skills and Knowledges
14:50-15:25	Coffee Break		
		Parallel Sessions	3
Onsite Room	Onsite Room 11	Technology Innovatio ED3004, ED3008-A, ED1094	ED3016-A, ED1114, ED1099, ED1191,
	Onsite Room 12	Onsite Session 2 – E-Learning System, Active Learning, an Technology-Enhanced Learning site Room 12 ED3007-A, ED4006-A, ED1090-A, ED1105, ED1038, ED1008 ED1174-A, ED1183	
	Onsite Room 13	Learning	- Digital Learning Platform and Online ED1036, ED3015-A, ED1206, ED1014,
	Online Room A 893 3215 2596 (Passcode: 2023)	Online Session 1 - Analytics	- Education Data Mining and Learning 1026, ED1129, ED1068, ED1184, ED1093,
	Online Room B 889 9382 6644 (Passcode: 2023)	Online Session 2 – Flipped Classroom	Blended Learning, Blended Teaching, and 1046, ED1033, ED1086, ED1205, ED1081,
18:00-20:00	Dinner Banquet		

Thursday, September 28, 2023

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	Online Deem /	002 2215 2506	Online Room B: 889 9382 6644	
	Online Room A: 893 3215 2596 (Passcode: 2023)		(Passcode: 2023)	
	(Fassed	-		
	1	Online Parallel Sess		
07:00-08:45	Online Session 3 – Artificial Intelligence in Education and AI-Based Teaching		Online Session 4 – Virtual Learning and Technology-Enhanced Learning	
07.00 00.15		3, ED1148, ED1193, 1024, ED1077	ED2004, ED1047, ED1185, ED1085, ED2005, ED1075, ED1195	
08:45-09:00	Break			
	1	Online Invited Spee	ches	
	Chair - Prof. Ielena	Jovanovic, University	Chair – Prof. Zhong Sun , Capital Normal	
	of Belgrade, Serbia	, • • • • • • • • • • • • • • • • • • •	University, China	
	U	Yu Yang, Guangdong	Assoc. Prof. Li Cheng, Beijing University	
		ochemical Technology,	of Posts and Telecommunications, China	
09:00-09:25			Speech Title: Analysis of the	
09.00-09.23	Speech Title: Attention Cues on		Communication Mode of Chinese Culture	
	Multimedia Learnir	1g	and International Communication in the	
			South Pacific Region Based on Internet Media	
	Dr. Alex W. C. TS	SE, The University of	Assoc. Prof. Diamantino Freitas,	
	Hong Kong, China		University of Porto, Portugal	
09:25-09:50	Speech Title: Challenges of Developing		Speech Title: Enabling Eyes-free Access,	
09.23-09.30	and Assessing 21st	-Century Skills of High	Creation and Interaction with Digital	
	School Students: U	sing Critical Thinking	STEMA Media Content Using speech -	
	as An Example		Some Results	
09:50-10:00	Break			
		Parallel Sessions	5	
		Onsite Session 4 -	Personalized Learning, Educational Data	
	Onsite Room 11	Mining, and Learning	Analytics	
		ED1027-A, ED1176, E	D1012, ED1115, ED1051-A, ED1170	
		Onsite Session 5 -	Artificial Intelligence in Education and	
		Human-Centered Con	nputing	
10:00-12:15	Onsite Room 12			
10:00-12:15	ED1028, ED1159-A,		ED3024-A, ED1117, ED1154, ED1143,	
		ED1100		
			- STEM Education, Computer Science	
		Education, and Educa	tion Management	
	Onsite Room 13			
			ED1156, ED1140, ED3010-A, ED1011,	
		ED3017-A		

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e 14th International Conference on Distance Learning and Education (ICDLE 2023)		September 26-

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		Online Session 5	- ICT Integrated Education and Digital
	Online Room A	Teaching	
	893 3215 2596		
	(Passcode: 2023)	ED1052, ED1200, ED	1172, ED1155, ED1168, ED1201, ED1194,
		ED1178, ED1106	
			Online Learning and Students' Attitudes
	Online Room B	towards Online Learn	ing
	889 9382 6644		
	(Passcode: 2023)		1137, ED1015, ED1109, ED1050, ED1113,
		ED1073, ED1091	
12:15-13:30	Lunch		
		Online Parallel Sess	ions
	Online Room A	A: 893 3215 2596	Online Room B: 889 9382 6644
	(Passco	ode: 2023)	(Passcode: 2023)
	Online Session 7	– Computer Science	Online Session 8 – STEM Education and
	Education and Cultivation of		Education Management
	Computation	onal Thinking	
13:30-15:45			ED1199, ED1034, ED1128, ED1001,
	,	5, ED1152, ED1031,	ED1040, ED1076, ED1118, ED1202,
	-	A, ED1211, ED1121,	ED3012
		1210	
15:45-16:10	Break		
16:10-16:30	Online Awards & Closing Ceremony		• •
10110 10150	Online Room A: 893 3215 2596 (Passcode: 2023)		

University of Barcelona, Barcelona, Spain

Keynote Speech



Prof. Matthew Ohland, IEEE Fellow

Purdue University, USA

Speech Time: 09:15-10:00, September 27, 2023 Onsite Room: Auditorium Online Room A: 893 3215 2596 (Passcode: 2023)

Dr. Matthew Ohland is the Dale and Suzi Gallagher Professor and Associate Head of Engineering Education at Purdue University. He earned a Ph.D. in Civil Engineering from the University of Florida, M.S. degrees in Materials Engineering and Mechanical Engineering from Rensselaer Polytechnic Institute, and a B.S. in Engineering and a B.A. in Religion from Swarthmore College. He Co-Directs the National Effective Teaching Institute (NETI) with Susan Lord and Michael Prince. His research has been funded by over USD 20M, mostly from the United States National Science Foundation. Along with his collaborators, he has been recognized for his work on longitudinal studies of engineering students with the William Elgin Wickenden Award for the best paper published in the Journal of Engineering Education in 2008, 2011, and 2019. He has also been recognized for the best paper in IEEE Transactions on Education in 2011 and 2015, multiple conference Best Paper awards, and the Betty Vetter Award for Research from the Women in Engineering Proactive Network. The CATME Team Tools developed under Dr. Ohland's leadership and related research have been used by over 1.9 million students of more than 23,000 faculty at more than 2500 institutions in 90 countries, and were recognized with the 2009 Premier Award for Excellence in Engineering Education Courseware and the Maryellen Weimer Scholarly Work on Teaching and Learning Award in 2013. Dr. Ohland received the Chester F. Carlson Award for Innovation in Engineering Education from the American Society for Engineering Education (ASEE) for his leadership of that project. He is a Fellow of ASEE, IEEE, and AAAS. He has received teaching awards at Clemson and Purdue. Dr. Ohland is an ABET Program Evaluator and has previously served as an Associate Editor of IEEE Transactions on Education. He was the 2002–2006 President of Tau Beta Pi.

Speech Title: Exploring the Efficacy of ChatGPT in Analyzing Student Teamwork Feedback with an Existing Taxonomy

Abstract: Teamwork is a critical component of many academic and professional settings. In those contexts, feedback between team members is an important element to facilitate successful and sustainable teamwork. However, in the classroom, as the number of teams and team members and frequency of evaluation increase, the volume of comments can become overwhelming for an instructor to read and track, making it difficult to identify patterns and areas for student improvement. To address this challenge, we explored the use of generative AI models, specifically ChatGPT, to analyze student comments in team based learning contexts. Our study aimed to evaluate ChatGPT's ability to accurately identify topics in student comments based on an existing framework consisting of positive and negative comments. Our results suggest that ChatGPT can achieve over 90% accuracy in labeling student comments, providing a potentially valuable tool for analyzing feedback in team projects. This study contributes to the growing body of research on the use of AI models in educational contexts and

highlights the potential of ChatGPT for facilitating analysis of student comments. This presentation shares the collaborative work of Andrew Katz of Virginia Polytechnic Institute and State University in Blacksburg, Virginia, and Siqing Wei, Gaurav Nanda, Chris Brinton all of Purdue University – West Lafayette, Indiana, along with the speaker. A paper by the same title has been pre-published at the arXiv repository and is being submitted for journal publication.

Keynote Speech



Prof. Chronis Kynigos (Online)

National and Kapodistrian University of Athens, Greece

Speech Time: 10:30-11:15, September 27, 2023 Onsite Room: Auditorium Online Room A: 893 3215 2596 (Passcode: 2023)

Chronis directs the Educational Technology Lab at the Dept. of Educational Studies, School of Philosophy, NKUA.

His research interests involve the design and use of digital media to study engaged socio-constructionist learner activities. He has applied Design Research methods to study innovative educational practices aiming to transform schooling to cultivate citizenship rather than academic excellence. He serves as academic consultant to the Ministry of Education on TPD since 2005 and is responsible for Mathematics having reached 35% of teachers in the country. He is responsible for the design of three popular original authoring systems freely available at http://etl.eds.uoa.gr. a) Malt, a programmable modeler for animated figural objects to support computational thinking (CT) and mathematics. b) ChoiCo, a 'choices with consequences' game creator for CT and the grappling with wicked, socio-scientific issues and c) SorBET, a tetris - like game creator integrating CT with classification. He is an active member at the IDC, Constructionism and ICTMT conferences. He represents Greece at the International Congress of Mathematical Instruction. He is also visiting Professor at Linnaeus University Sweeden. Chronis has been active in the European Research and Developlent scene and is currently engaged with two HORIZON multi-oranisational projects, numbers 15 and 16 in his career, respective acronyms: ExtenDT2 and TransEET.

Speech Title: Constructionist Tools for Computational Thinking

Abstract: One of the first ideas on how to use digital media for learning was a kind of a wake-up call to what learning actually could be from an epistemological and a pedagogical point of view. The elements that the education community was jolted into seriously considering was that of a) meaning-making versus routine learning and b) agency and creativity versus response to controlled questions which can be objectively assessed. But this was a long time ago. Since then, technology has been used for everything under the sun spanning from conservationist to administrative to transformative approaches to what it means to educate. In the education community the interest in transformative approaches has led research to progress from adopting a misconceptions approach to learning to a meaning-making approach and the to the idea of skills and in the past decade to competences. Meanwhile new technologies are always emerging providing excitement but at the same time not much chance for educational added value to properly integrate into education systems. In my talk I will use three examples of digital expressive tools less known than MIT-scratch, but equally designed to enable engagement and to integrate computational thinking into the adoption of competences. I will take the case of mathematics education but broadly, asking 'what mathematics is good for cultivating mathematical competences' and 'what is mathematical about real life socio-scientific issues relevant to

youth today'. In my talk I will show examples of these three tools - authoring systems in fact - which are available freely for anyone to use or to design things with. The first, MaLT2, is a programmable modeller for animated 3D graphical figures, the second, ChoiCo, is a game designer for games based on the 'choices with consequences' paradigm and the third, SoRBET, is a tetris-like game designer based on the notion of classification. I will suggest some theoretical tools which have been useful to us in our 30-year long research at ETL to study learning processes and professional development.

Keynote Speech



Prof. Dragan Gasevic (Online)

Monash University, Australia

Speech Time: 11:15-12:00, September 27, 2023 Onsite Room: Auditorium Online Room A: 893 3215 2596 (Passcode: 2023)

Dragan Gašević is Professor of Learning Analytics in the Department of Data Science and Artificial Intelligence of the Faculty of Information Technology and the Director of the Centre for Learning Analytics at Monash University. Dragan's research interests in learning analytics center around the development of computational and design methods that advance understanding of self-regulated and collaborative learning. He is a founder and served as the President (2015-2017) of the Society for Learning Analytics Research (SoLAR). In 2019-2022, he was recognized as the national field leader in educational technology in The Australian's Research Magazine. In 2022, he received Lifetime Member Award as the highest distinction of SoLAR and was recognized as a Distinguished Member of the Association for Computing Machinery.

Speech Title: Generative AI: Opportunities and Challenges for Education

Abstract: This talk will discuss the promise of generative artificial intelligence (AI) in education. Existing debates about its implications often take several perspectives. Some argue that generative AI can profoundly enhance education and enable personalized learning. Others note significant disruptions to existing assessment practices and call for innovative approaches. Some even articulate great ethical concerns about the implications of using generative AI in education. This talk will address all of these perspectives. It will first discuss promising directions for the use of generative AI in education. It will then outline some major concerns associated with technology that underpins generative AI. Finally, the talk will outline directions for future research. The talk will draw upon a growing body of research knowledge and evidence derived from several empirical studies to provide insights into these important questions.

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Dr. Vinh To

University of Tasmania, Australia

Speech Time: 14:00-14:25, September 27, 2023 Onsite Room: Room 11 Online Room A: 893 3215 2596 (Passcode: 2023)

Dr Vinh To is a Senior Lecturer in English Curriculum and Pedagogy at the University of Tasmania, Australia. Her research interests include educational linguistics, English, literacy and languages education, and online education. Her publications appear in top quartile journals such as the Australian Journal of Linguistics, the International Journal of Early Years Education, the Australian Journal of Language and Literacy and Linguistics and the Human Sciences. She has been invited to deliver international keynotes in Vietnam and Lithuania and her research activities appear in media news across the Australian and ASEAN regions. Dr To is the Founder of the Systemic Functional Linguistics Interest Group (SFLIG) and the Convenor of SFLIG Conferences. She is the Editor of "Systemic Functional Linguistics Theory and Application in Global Contexts", and Guest Editor for Linguistics and the Human Sciences. Dr To is the chief investigator of the Australia-ASEAN Academics Forum: Online Education During Covid-19 and beyond, funded by the the Australian Government through the Australia-ASEAN Council of the Department of Foreign Affairs and Trade. She has been awarded the University of Tasmania's Deputy Vice-Chancellor's Commendation Letter, three Teaching Merit Certificates in recognition of her excellent teaching in fully online and blended courses, and a Student Teaching Appreciation Certificate. She has also been awarded a CALE Commendation for Research Innovation and Impact.

Speech Title: Pedagogical Challenges in Online Teaching Faced by Academics in Southeast Asia during COVID-19

Abstract: The sudden move to online teaching for the first time during COVID-19 caused a number of challenges to academics in higher education institutions in Southeast Asia (SEA). The results presented in this paper are part of a larger research project funded by the Australia-ASEAN (Association of Southeast Asian Nations) Council of the Department of Foreign Affairs and Trade of the Australian Government to investigate the readiness, practices, and challenges of online education in 10 ASEAN countries during COVID-19. This project surveyed 184 participants in March 2021 across 10 SEA countries, who were involved in online teaching at their universities for the first time. The survey was then followed by 10 group interviews in June 2021 and 20 individual interviews in September 2021. The participants came from a range of disciplines including education, Information and communication technology, humanities, social sciences, health, and economics. Using thematic analysis and the interpretative paradigm, many technological and pedagogical concerns were revealed, and these were experienced across both synchronous and asynchronous teaching. Pedagogical challenges for first-time online delivery included student engagement in the online environment, preparing engaging online lessons and online assessment. This research provides valuable insights into how

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Dr. Nashwa Ismail

University of Liverpool, UK

Speech Time: 14:25-14:50, September 27, 2023 Onsite Room: Room 11 Online Room A: 893 3215 2596 (Passcode: 2023)

Dr. Ismail holds an MSc and PhD in Education from Southampton Education School and is a Fellow of The Higher Education Academy (FHEA). With a focus on Technology-Enhanced Learning (TEL), she has nine years of experience in teaching and research in UK Higher Education. Currently a lecturer in education technology at the University of Liverpool, she leads projects in games-based learning, CPD, and e-assessment. Dr. Ismail's leadership extends globally, with roles in research projects across countries like Indonesia, Malaysia, Middle East (Egypt, Saudi Arabia), Myanmar, Thailand, and the USA. Her current efforts include utilizing ChatGPT for teaching, investigating online CPD impact in Kenya and Sierra Leone, and leading ChatGPT workshops in the Middle East (Egypt, Iraq and Oman).

Speech Title: Investigating Teachers' Online CPD And Its Impact On their Teaching Profession

Abstract: In the wake of the COVID-19 pandemic, the landscape of Continuous Professional Development (CPD) for school teachers has witnessed significant changes. Post-Covid, hybrid CPD has emerged as a prominent format, holding immense potential in both attracting and retaining teachers in the education sector (ISC Research, 2023). This study aims to investigate the impact of provided online training on enhancing teachers' competence and supporting their growth and proficiency. Using a qualitative research approach, the author conducted semi-structured interviews with 12 school-teachers who participated in online and hybrid CPD sessions. The study examined the design and delivery of the online CPD provided, exploring challenges and merits associated with this mode of training. Teachers' perceptions of the online training were also assessed, along with their recommendations for improvement and how teachers vision the learning mode for their future CPD.



Assoc. Prof. Siti Hajar Halili (Online)

Universiti Malaya, Malaysia

Speech Time: 14:00-14:25, September 27, 2023 Online Room B: 889 9382 6644 (Passcode: 2023)

Assoc. Prof. Ts. Dr. Siti Hajar Halili is the Head of the Department of Curriculum & Instructional Technology. She was formerly with the Research Division, Prime Minister Department, Malaysia. She holds a Degree in Information System Management from the University Technology MARA, a Master's in Educational Technology, and PhD. in Adult Education Technology from the University Sains Malaysia. Her works are published in ISI, SCOPUS, Malaysian and International journals. She has also published books and chapters in books. She has broad experience in teaching and training in the area of Instructional Design & Technology. She also serves as Chief Editor of Jurnal Penyelidikan Pendidikan, and article reviewer for several journals and conferences. Currently, she is active in research and publishes in Instructional Design & Technology, Open Education, Digital Curriculum & Design, Curriculum & Instruction, Educational Technology and Media (Flipped Learning, Open-Badge Learning, and Digital Learning).

Speech Title: Embracing Open Badge Learning in Education Setting

Abstract: Open Badge Learning (OBL) has emerged as a powerful tool in education, revolutionising how learning is recognized and valued. It explores the potential of OBL in transforming traditional education systems, fostering a culture of lifelong learning, and enhancing skill recognition in diverse educational environments. It also provides a flexible and adaptable framework for individuals to showcase essential skills and lifelong learning, The sharing session begins by elucidating the concept of OBL and its fundamental principles, highlighting its capacity to validate and showcase an individual's knowledge and skills beyond formal academic qualifications and challenges of OBL in the education setting. Through OBL, learners are empowered to accumulate and display their skills and competencies aligning with the dynamic demands of the modern job market.

University of Barcelona, Barcelona, Spain



Assoc. Prof. Bo Qin (Online)

Shenyang Jianzhu University, China

Speech Time: 14:25-14:50, September 27, 2023 Online Room B: 889 9382 6644 (Passcode: 2023)

Mr Qin had received his B.S., and M.S degrees in 2002 and 2007 between Dalian Industry University in China and Southampton University in England. Since 2008, he has been with the Shenyang Jianzhu University in China. He is currently an Assoc. Prof. His current interests are in the areas of applications of AIGC (Artificial Intelligence Generate Content) in Higher education, Design Education and Virtual Reality. He also holds a position of a lecture in Shenyang Institute of technology 2021/2023. He had published several papers in EI conferences.

Speech Title: To Explore the Effects of Virtual Reality in Vocational Education and Training

Abstract: The features of Virtual Reality (VR) present a learner-centric platform, make leaning more vivid, and solve the problems that cannot complete in physical classes. It can encourage the students' motivation and improve the learning experience. However, results pertaining to the effects of VR in vocational education and training (VET) have not been explored deeply. As for the design skills, whether VR can improve the design outcomes, it is still a big question. In this paper, we chose the VR to support interior designers for designing the office space. After analyzing this instructional experiment, we investigate the effects of VR in designing office space compared with the traditional method on proportion, composition, and innovation from design outcomes. The results show that VR can enhance the design outcomes compare with paper sketching except innovation. On the other hand, the design outcomes can be impacted by different orders between paper sketch first after VR or VR first after paper sketch. As for quantitative analysis, we find the first combination is better than the second one.

University of Barcelona, Barcelona, Spain



Mr. Piergiorgio Guarini (Online)

University of Foggia, Italy

Speech Time: 14:50-15:15, September 27, 2023 Online Room B: 889 9382 6644 (Passcode: 2023)

Piergiorgio Guarini is a Ph.D. candidate in "Neuroscience and Education" (curriculum "Innovation") at University of Foggia in Italy. His project focuses on innovative digital teaching methodologies, especially on structuring a new course to enhance pre-service teachers' digital skills using innovative digital methodologies (e.g. Digital Game-Based Learning). He works on four Erasmus+ project: two are about digital competences for teachers (Tuned, GEMMA), one is about students' digital resilience (DigiPsyRes), and the last one is about using Serious Games for medical students training (E-MEDIC). He has Master's Degree in Science of Development and International Cooperation and two Masters in "Europlanning" and "Social Critique of Contemporaneity. Globalization and Human Rights." In the last three years he was author or co-author of about 25 papers most of them indexed on Scopus. He has been chair or reviewer in more than 5 international conferences.

Speech Title: The Development of a Training to Enhance Italian Special Needs Teachers' Information and Communication Technologies (ICT) Skills and Knowledges

Abstract: In recent years, especially after the Covid-19 pandemic, the digital skills of K-12 teachers have become very important. Not only "operational" skills, such as how to use a videocall software, but also a new knowledge about the possibilities offered by the didactic digital software and tools in designing and planning a lesson or a whole study course. In Italy, K-12 teachers and school institutions digital skills and capabilities were under the average in the OECD Countries (Talis Survey 2018) and they struggled during the lockdowns due to the Covid-19 pandemic. Nowadays the emergency is over, but the Covid-19 has forever changed the way in which the didactic is provided – if not on the teachers' side, certainly on the students' side.

The University of Foggia Learning Science hub (LSh), in Italy, works on designing and planning new methodologies to teach digital skills to pre-service teachers (especially special needs teachers), in order to enhance their knowledge and use of digital skills in planning and providing interventions, lessons and courses.

To guide the designing and planning activities, we have administered the DigComp 2.2, the newest version (by March 2022) of the self-report questionnaire of the Digital Competence Framework for Citizens created by the European Commission, to approximately 800 special needs teachers training at the University of Foggia in the current Academic Year (2022/2023).

In the speech, the collected results of the survey will be presented and discussed, becoming the cornerstone of LSh research in this field: knowing the digital skills initial level of in-training teachers is essential to design and plan a course that can enhance teachers' knowledge and train them in using Information and Communication Technologies (ICT) in their everyday work. The survey has been

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administered before and at the end of the specialization course to become special needs teachers, in order to be able to compare teachers' digital skills improvement after the course.

The speech will close with the proposal of the design of a new way to teach digital skills to pre-service and in-service teachers, shaped following the DigCompEdu 2.2 Framework



Assoc. Prof. Hui-Yu Yang (Online)

Guangdong University of Petrochemical Technology, China

Speech Time: 09:00-09:25, September 28, 2023 Online Room A: 893 3215 2596 (Passcode: 2023)

Hui-Yu Yang is an Associate Professor of Guangdong University of Petrochemical Technology. Her research interest includes mobile learning and educational technology. Her research works have been published in CALICO journal, International Journal of Mobile and Blended Learning, International Journal of Technology and Human Interaction, Australasian Journal of Educational Technology, International Journal of Human-Computer Interaction, Technology in Society, Educational Technology and Society, and Journal of Research on Technology in Education.

Speech Title: Attention Cues on Multimedia Learning

Abstract: Due to the transience of animations, while animations are displayed, several components move simultaneously and compete for learners' limit attention. The purpose of highlighting each component in a mechanical system progressively and cumulatively throughout the animation is to reduce competition between cues and animated component for learners' attention. In this way, the learners' attention can be more equally distributed among each component rather than be unevenly distributed to the more visually salient components. The transience of animations can be solved by making animations interactive and by presenting snowball-like cues along with the progress of the animations. Interactive animations also help alleviate perceptual difficulties by allowing learners to manipulate the presentation mode and display speed that appropriately matched the learners' capability to process the information.



Dr. Alex W. C. TSE (Online)

The University of Hong Kong, China

Speech Time: 09:25-09:50, September 28, 2023 Online Room A: 893 3215 2596 (Passcode: 2023)

Dr. Alex W. C. TSE is currently a Lecturer at Teacher Education and Learning Leadership, Faculty of Education, The University of Hong Kong, mainly responsible for teaching, research and projects of STEM education, information technology in education, critical thinking, assessment for learning, inquiry-based learning assessment and small class teaching. He has been serving as a project member of PISA 2025 (Learning in the Digital World) and a member of programme committee for Master of Science in Information Technology in Education. Dr. Tse has been serving as a reviewer of manuscripts of various academic journals and conferences. He also has been acting as a programme committee chair/member in various academic conferences in IT in Education and STEM education, serving as (permanent) Council Member (previously Secretary-General) of Chinese Society for Inquiry Learning since 2009. He has published more than 40 items, including book chapters, journal papers, research reports and double-blind peer reviewed conference papers.

Speech Title: Challenges of Developing and Assessing 21st-Century Skills of High School Students: Using Critical Thinking as An Example

Abstract: Critical thinking generally refers to the competence of making purposeful and self-regulatory judgments. It is an important learning objective in education worldwide (e.g. one of the 21st-century skills in OECD's framework of lifelong learning). Regardless of its importance and the existence of a wide variety of learning and teaching approaches to develop critical thinking, learning designs and assessment tasks which effectively and systematically develop and assess critical thinking are generally limited in high schools. This invited speech discusses various challenges of developing and assessing the critical thinking of high students and suggests possible ways of addressing these challenges in order to facilitate educators, researchers, instructional designers and school leaders to develop and assess the critical thinking of high school students more effectively and systematically.



Assoc. Prof. Li Cheng (Online)

Beijing University of Posts and Telecommunications, China

Speech Time: 09:00-09:25, September 28, 2023 Online Room B: 889 9382 6644 (Passcode: 2023)

Dr. Li Cheng is an associate professor and graduate student supervisor at Beijing University of Posts and Telecommunications (BUPT). Her research interests at present are computer-assisted language learning, digital humanities, intercultural communication and Teaching English/Chinese to Speakers of Other Languages. In the past five years, Dr. Cheng presided over/participated in six research projects at the provincial and the university level. As a team member, she won the second prize of 2022 Beijing Teaching Achievement Award in Higher Education and 2021 Excellent Postgraduate Supervisor Team Award of BUPT.

Speech Title: Analysis of the Communication Mode of Chinese Culture and International Communication in the South Pacific Region Based on Internet Media

Abstract: In a report in 2016, the United Nations Development Programme identified four key main fields of collaboration between China and the South Pacific region under the South-South Cooperation framework: infrastructure construction, public health, climate change, and new energy. Taking a positive discourse analysis perspective, this paper reports a series of studies exploring the discourse ecological civilization in the cultural exchanges between China and the South Pacific based on the WeChat accounts of South Pacific research. A combination of software was used for data collection and analysis including web crawler tools, ELAN and MAXQDA. The study will provide useful reference for investigation into positive discourse analysis, international communication, and ecological civilization.

University of Barcelona, Barcelona, Spain



Assoc. Prof. Diamantino Freitas (Online)

University of Porto, Portugal

Speech Time: 09:25-09:50, September 28, 2023 Online Room B: 889 9382 6644 (Passcode: 2023)

Diamantino Freitas is presently an Associate Professor and coordinator of the Speech Processing, Electroacoustics, Signals and Instrumentation Laboratory (LPF-ESI) in the ECE Department of the Faculty of Engineering of the University of Porto, Portugal. His areas of interest includes electronic instrumentation, electro-acoustics, audio, signal processing, technologies for rehabilitation of people with special needs and development of resources for inclusion in learning and teaching. He has participated in several national and international R&D projects with the position of national delegate in several COST actions. Since 2012, together with supervision of master's or doctoral dissertations, he has an authorship in forty-four papers at conferences, twenty papers in scientific journals, ten book chapters and two patents. He was also the recipient or co-recipient of six national and three international awards.

Speech Title: Enabling Eyes-free Access, Creation and Interaction with Digital STEMA Media Content Using speech - Some Results

Abstract: Modern digital media succeeded in coding STEMA content through text-based XML dialects, such as HTML, MATHML, SVG and others. Most of these representations are model-based and composed by objects and dynamics of quite varied nature, such as text boxes, mathematical expressions, geometric shapes, electric circuits, molecular diagrams and many others. Being primarily available in visual form, rendering of STEMA content in an eyes-free way when subjects are visually impaired persons (VIPs) is to my experience an on-going challenge. It raises several difficulties due to the medium conversion operations and their characteristics, affecting the representations' quality and cognitive process. One such medium conversion is the graphical to tactile one, as the latter is a geometrical low-resolution representation. Another conversion example is the mathematical expression into speech one. In this case, speech time-linearity most probably causes a mental overload, in case memory management and cognitive aspects are not well considered. Speech as a general-purpose medium may also be used to describe graphical contents. In this communication, I will present some medium conversion projects developed in my laboratory in the past 20 years aiming to enable a better access of VIPs to mathematics, technical drawings and museum objects.

University of Barcelona, Barcelona, Spain

ICETC

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	Topic: Diverse Classroom Design and Educational Technology Innovation Session Chair: Dr. Vinh To, University of Tasmania, Australia			
Time: 15:25-17:10, September 27, 2023				
	Onsite Room: Room 11			
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.			
**Presenters a	re recommended to stay for the whole session in case of any absence.			
***After the se	ssion, there will be a group photo for all presenters in this session.			
	Blended Learning, Flipped Classroom and Peer Teaching? A Classroom Design to Meet			
ED3004	Increasing Diversity in Higher Education			
15:25-15:40	Annina Boehm-Fischer and Luzi Monica Beyer			
	Presenter: Annina Böhm-Fischer, Alice Salomon University of Applied Science, Germany			
ED3008-A	Emergency Remote Teaching and SEL: Examining Gender and Seniority Differences			
15:40-15:55	Nissim Avissar			
13.40-13.33	Presenter: Nissim Avissar, Kibbutzim College of Education, Israel			
	From Passive to Active Learning: Enhancing Student Engagement in Teaching with the			
ED3016-A	Classpoint App			
15:55-16:10	Ahmad Al janadbah			
Presenter: Ahmad Al janadbah, Zayed Uninersity, UAE				
ED1114	A Systematic Analysis of Machine Learning Studies in Education			
16:10-16:25	Şule Taşlı Pektaş			
10.10-10.25	Presenter: Şule Taşlı Pektaş, OSTIM Technical University, Turkey			
ED1099	Learning User Interface Design for Smart Learning Environment			
16:25-16:40	Masashi Katsumata			
10.25-10.40	Presenter: Masashi Katsumata, Nippon Institute of Technology, Japan			
	Use of Virtual Reality for Education and Training of Emergency Rescue System for Crisis			
ED1191	Situations			
16:40-16:55	Miroslav Bednář, Patrik Dufek, Alena Lochmannová, Michal Šimon and Marek Bureš			
	Presenter: Miroslav Bednář, University of West Bohemia in Pilsen, Czech Republic			
	From Paper to Pixels: An Investigation of the Feasibility and Acceptability of QR Code			
ED1094	Attendance-Taking in A Higher Education Setting			
16:55-17:10	Tee Hean Tan, Shiau Foong Wong, Shalini Nagaratnam, Muhammad Naeim Mohd Aris and			
10.00 17.10	Wooi Keong Yong			
	Presenter: Tee Hean Tan, Sunway University, Malaysia			

University of Barcelona, Barcelona, Spain

ICETC

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Topic: E-Learning System, Active Learning, and Technology-Enhanced Learning	
Session Chairs: Dr. Cristina Galvan, University of Barcelona, Spain	
Dr. Marc Fuertes, University of Barcelona, Spain	
Time: 15:25-17:25, September 27, 2023	
	Onsite Room: Room 12
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.
**Presenters a	re recommended to stay for the whole session in case of any absence.
***After the se	ssion, there will be a group photo for all presenters in this session.
	Is Distance Learning Inferior in the Field of Caring Professions? Longitudinal Evidence from
ED3007-A	Germany's Largest State University During and after the Pandemic
	Benjamin Fuchs and Magdalena Kaufmann
15:25-15:40	Presenters: Benjamin Fuchs and Magdalena Kaufmann, Alice-Salomon-Hochschule
	Berlin, Germany
ED4006-A	Best Practices in Choosing a Learning Management System
15:40-15:55	Kelley Walters
15:40-15:55	Presenter: Kelley Walters, Western Governors University, United States
ED1090-A	Development of e-Learning System for Chinese Front nasal and Back nasal Pronunciations
15:55-16:10	Akemi Hoshino
15:55-10:10	Presenter: Akemi Hoshino, National Institute of Technology, Toyama College, Japan
	Design and Development of a Social Micro-Learning Platform in the context of Tactile
ED1105	Learning Materials for Students with Visual Impairments
16:10-16:25	Daniela Duh, Bernhard Göschlberger, Michael Boch, Georg Graser, Miriam Gross, Andrea
10:10-10:25	Pitzschke and Eva Sengschmid
	Presenter: Daniela Duh, Research Studios Austria FG, Austria
	MVR-RCM: An Approach to Recommend Microlearning Videos in Informal Online Learning
ED1038	Environment
16:25-16:40	Shin-Yan Chong, Fang-Fang Chua and Tek-Yong Lim
	Presenter: Fang-Fang Chua, Multimedia University, Malaysia
ED1008 16:40-16:55	Video-based SRL Program for Teachers and Students
	Afrah Assi and Anat Cohen
	Presenter: Afrah Assi, Tel-Aviv University, Isreal
ED1174-A 16:55-17:10	A Technical Solution for Evaluating the School as a Learning Organisation Approach in A
	General Education School
	Gunta Siliņa Jasjukevica, Inese Lūsēna-Ezera and Laura Hofmane
	Presenter: Gunta Silina-Jasjukevica, University of Latvia, Latvia
ED1102	Do Learning Analytics Promote Schools as Learning Organisations? A Case Study of Latvia
ED1183	Inese Lūsēna-Ezera, Gunta Siliņa-Jasjukeviča, Diāna Līduma and Oskars Kaulēns
17:10-17:25	Presenter: Inese Lūsēna-Ezera, Liepaja University, Latvia

University of Barcelona, Barcelona, Spain

ICETC

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Topic: Digital Learning Platform and Online Learning		
Session Chair: Dr. Silvia Alcaraz, Universitat de Barcelona, Spain		
Time: 15:25-17:25, September 27, 2023		
	Onsite Room: Room 13	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.	
**Presenters a	re recommended to stay for the whole session in case of any absence.	
***After the se	ssion, there will be a group photo for all presenters in this session.	
	Learning Together. Can the Number of Participants Improve the Performance of a Large	
ED1032	Group? An Experimental Anal Ysis in the Collective Learning Platform	
15:25-15:40	Santos Orejudo, Carmen Elboj, Javier Fernandez and Pablo Bautist	
	Presenter: Santos Orejudo, University of Zaragoza, Spain	
	Collective Intelligence as a Learning Method and Its Pedagogical Applications through Online	
ED1035	Collaborative Work Platforms	
15:40-15:55	Pablo Bautista, Alejandro Rivero and Javier Fernandez	
	Presenter: Javier Fernandez, Kampal Data Solutions, Spain	
	Analysis of Emotional Responses of Students Participating in a Collective Intelligence	
ED1036	Experiment	
15:55-16:10	Santos Orejudo, Raquel Lozano, Monserrat Aiger and Ana Belen Cebollero Salinas	
	Presenter: Raquel Lozano Blasco, University of Zaragoza, Spain	
	Face-To-Face, Distance, and Hybrid Education: Changing the Educational Behaviour of Poles	
ED3015-A	and Adaptation Strategies of the Training Sector	
16:10-16:25	Barbara Worek and Wojciech Kubica	
	Presenters: Barbara Worek and Wojciech Kubica, Jagiellonian University, Poland	
	Design and Implementation of an Online Professional Development Course on Climate	
ED1206	Change Education in Spain	
16:25-16:40	Silvia Alcaraz and Mario Barajas	
	Presenter: Silvia Alcaraz, Universitat de Barcelona, Spain	
ED1014	Investigation of UYCEP Edu Education Portal	
16:40-16:55	Caglar Cetinkaya, Evren Sezgin and Cihat Akkiraz	
10.10 10.55	Presenter: Caglar Cetinkaya, Akdeniz Universitesi, Turkey	
	Project-oriented Teaching Approach of Decentralised Applications for Undergraduate	
ED1037	Students	
16:55-17:10	Sandi Gec, Petar Kochovski, Vlado Stankovski and Dejan Lavbič	
	Presenter: Sandi Gec, University of Ljubljana, Slovenia	
ED1149-A	Team-Maker: A Tool for Team Formation and Research	
17:10-17:25	Matthew W. Ohland, Misty L. Loughry and David J. Woehr	
	Presenter: Matthew W. Ohland, Purdue University, United States	

ICETC

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Session Chair: Dr. Nashwa Ismail, University of Liverpool, UK Time: 10:00-11:30, September 28, 2023 Onsite Room: Room 11 *Presenters are recommended to enter the meeting room 10 mins in advance. ***Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session. Unboxing the Blackbox: Learnings from the ALS Pilot Jiunn Huat Soo and Ioana Ghergulescu 10:00-10:15 Presenters: Jiunn Huat Soo and Ioana Ghergulescu, Ministry of Education, Singapore an Adaptemy, Ireland ED1176 Problems 10:15-10:30 Kazuaki Okada, Masashi Kudo and Hayato Yamana Presenter: Masashi Kudo, Waseda University, Japan ED1012 Research on the Characteristics of Group Cognitive Engagement in Collaborative Learning Zihan Guo, Yuxin Li, Lei Wu and Fati Wu Presenter: Zihan Guo, Beijing Normal University, China A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany Using Al to Teach Soft Skills in Virtual Learning Environments
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10:15-10:30Kazuaki Okada, Masashi Kudo and Hayato Yamana Presenter: Masashi Kudo, Waseda University, JapanED1012 10:30-10:45Research on the Characteristics of Group Cognitive Engagement in Collaborative Learning Zihan Guo, Yuxin Li, Lei Wu and Fati Wu Presenter: Zihan Guo, Beijing Normal University, ChinaED1115 10:45-11:00A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
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ED1012 10:30-10:45Research on the Characteristics of Group Cognitive Engagement in Collaborative Learning Zihan Guo, Yuxin Li, Lei Wu and Fati Wu Presenter: Zihan Guo, Beijing Normal University, ChinaED1115 10:45-11:00A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
ED1012 10:30-10:45Zihan Guo, Yuxin Li, Lei Wu and Fati Wu Presenter: Zihan Guo, Beijing Normal University, ChinaED1115 10:45-11:00A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
10:30-10:45Zihan Guo, Yuxin Li, Lei Wu and Fati Wu Presenter: Zihan Guo, Beijing Normal University, ChinaED1115 10:45-11:00A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
Presenter: Zihan Guo, Beijing Normal University, China ED1115 A Comparative Study on Converting Educational Materials into OER: ConvOERter vs. Manu Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
ED1115 10:45-11:00 Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali , RWTH Aachen University, Germany
10:45-11:00 Lubna Ali, Rene Roepke and Ulrik Schroeder Presenter: Lubna Ali, RWTH Aachen University, Germany
Presenter: Lubna Ali, RWTH Aachen University, Germany
Using AI to Teach Soft Skills in Virtual Learning Enviornments
osing in to reach sort skins in virtual learning Enviorminents
ED1051-A Kelly Poppe-Gale and Kimberly Reed
11:00-11:15 Presenters: Kelly Poppe-Gale and Kimberly Reed , Northcentral Technial College, United
States
Virtual Reality-Based (VR-Based) STEM Curriculum Design Improving Female Participation
ED1170 in STEM Education
11:15-11:30 Bihan Dong
Presenter: Bihan Dong, Xi'an Jiatong-Liverpool University, China

University of Barcelona, Barcelona, Spain

Topic: Artificial Intelligence in Education and Human-Centered Computing Session Chair: Assoc. Prof. Raffaele di Fuccio, Pegaso Online University, Italy Time: 10:00-11:45, September 28, 2023

Onsite Room: Room 12

*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

There the session, there will be a group photo for an presenters in this session.		
ED1028	Once Upon a Time there was an Ozobot: Storytelling with Educational Robots	
10:00-10:15	Sara Hinterplattner, Eva Schmidthaler, Jakob Skogø, Sarah Leitner and Barbara Sabitzer	
	Presenter: Sara Hinterplattner, Linz Institute of Technology, Austria	
ED1159-A	Behavioural Change through AI-Driven Scenarios: An Electronic Narrative Experience	
10:15-10:30	Juan Carlos Sanchez Lozano	
10.13-10.30	Presenter: Juan Carlos Sanchez Lozano, Independent Researcher, Spain	
ED3024-A	Reskilling, Upskilling and Higher Education Curriculum Development	
10:30-10:45	Kelley Walters	
10.30-10.43	Presenter: Kelley Walters, Western Governors University, United States	
	Enabling Visually Disabled Persons to Create Technical Drawings: A Review with a	
ED1117 10:45-11:00	Preliminary Contribution	
	Vítor Carvalho and Diamantino Freitas	
	Presenter: Vítor Carvalho, University of Porto, Portugal	
ED1154	Prototyping of a walking assistance system for visually impaired people using AI and LiDAR	
11:00-11:15	Yasuyuki Murai, Yumiko Ota and Hisayuki Tatsumi	
	Presenter: Yasuyuki Murai, Nihon Pharmaceutical University, Japan	
	Impact of Dark Mode on the User Experience of Productivity-oriented Applications	
ED1143	Robert Zebec and Karsten Huffstadt	
11:15-11:30	Presenter: Robert Zebec, Technical University of Applied Sciences Würzburg-Schweinfurt,	
	Germany	
ED1100 11:30-11:45	Automatic Classification of Interactive Texts in Design Thinking	
	Zhaoxue Wang, Haolin Zheng and Fati Wu	
	Presenter: Zhaoxue Wang, BeiJing Normal University, China	

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Topic: STEM Education, Computer Science Education, and Education Management Session Chair: Dr. Cristina Galvan, University of Barcelona, Spain Time: 10:00-11:45, September 28, 2023	
	Onsite Room: Room 13
	e recommended to enter the meeting room 10 mins in advance.
	re recommended to stay for the whole session in case of any absence.
***After the se	ssion, there will be a group photo for all presenters in this session.
	Problem Based Learning for Training in Statistics and Artificial Intelligence to Biomedical
ED1107	Engineers
10:00-10:15	Beatriz López, Gloria Mateu and Yenny Leal
	Presenter: Beatriz López, University of Girona, Spain
	Trends and Challenges of Project Based Learning in Computer Science and Engineering
ED1053	Education
10:15-10:30	Sadaqat Ur Rehman
	Presenter: Sadaqat Ur Rehman, University of Salford, UK
ED1156 10:30-10:45	The "COOL Clubs" - Supporting gifted primary school students in STEAM
	Michaela Schwinghammer, Daniela Milisic, Eva Schmidthaler and Barbara Sabitzer
	Presenter: Michaela Schwinghammer, Johannes Kepler University Linz, Austria
	Academic Program Simulation Tool a New Approach to Strategic Planning in Higher
ED1140	Education
ED1140	Vasileios Asteriou, Lefteris Angelis, Stavros Demetriadis, Petros Nicopolitidis, Georgios
10:45-11:00	Papadimitriou, Ioannis Stamelos and Thrasyvoulos Tsiatsos
	Presenter: Vasileios Asteriou, Aristotle University of Thessaloniki, Greece
	Home Education in the Czech Republic from the Perspective of Mothers-Educators
ED3010-A 11:00-11:15	Veronika Klapálková and Tereza Komárková
	Presenters: Veronika Klapálková and Tereza Komárková, Charles University, Czech
	Republic
ED1011 11:15-11:30	Teaching-Assistant Robot Tutoring Students in the Classroom
	Kazuyoshi Yoshino and Shanjun Zhang
	Presenter: Kazuyoshi Yoshino, Kanagawa Institute of Technology, Japan
	Development and Analysis of Critical Thinking through Intellectual Standards of Richard
ED3017-A	Paul
11:30-11:45	Sumaira Rashid
	Presenter: Sumaira Rashid, University of the Punjab, Pakistan

University of Barcelona, Barcelona, Spain

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Topic: Education Data Mining and Learning Analytics		
Session Chair: Assoc. Prof. Diamantino Freitas, University of Porto, Portugal		
Time: 15:25-17:25, September 27, 2023 (UTC+2)		
	Online Room A: 893 3215 2596 (Passcode: 2023)	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.	
	re recommended to stay for the whole session in case of any absence.	
	ssion, there will be a group photo for all presenters in this session.	
	Intelligent E-Learning and Digital Library System Based on Big Data Analysis	
ED1095	Jing Zhang	
15:25-15:40	Presenter: Jing Zhang, Northwest University, China	
	Building an Instructional Design Model for Human-AI Collaboration Grounded in Activity	
ED1142	Theory	
15:40-15:55	Feiyu Tian and Shaoqing Guo	
	Presenter: Feiyu Tian, Northwest Normal University, China	
	Genetic Programming-Enabled Prediction for Students Academic Performance in Blended	
ED1026	Learning	
15:55-16:10	Rui Chen, Fan Lai, Yanmei Li and Xuan Wang	
	Presenter: Xuan Wang, Southwest University, China	
	Priority Factors to Support the Adaptive Mentorship Model in Higher Education	
ED1129	Antonio R. Ramos-Díaz, Juan J. Franklin-Uraga, Lydia Velázquez-García and Antonio Cedillo-	
16:10-16:25	Hernández	
	Presenter: Antonio R. Ramos-Díaz, Tecnológico de Monterrey, Mexico	
	Constructing Guiding Principles for the Framework of Culturally Responsive Pedagogy-	
ED1068	guided Personal Learning Environments in Higher Education	
16:25-16:40	Yilin Sun, Xiaoshu Xu and Yunfeng Zhang	
	Presenter: Yilin Sun, Seattle Colleges, United States	
	Assessment in Virtual Higher Education in the Face of Artificial Intelligence	
ED1184 16:40-16:55	Jesús Enrique Beltrán Virgüez, Diana Geraldine Jimenez Garcia and Sandra Patricia Parada	
	Fonseca	
	Presenter: Jesús Enrique Beltrán Virgüez, Corporación Universitaria Minuto de Dios,	
	Colombia	
ED1093 16:55-17:10	Scalable Two-Minute Feedback: Digital, Lecture-Accompanying Survey as a Continuous	
	Feedback Instrument	
	Armin Egetenmeier and Sven Strickroth	
	Presenter: Armin Egetenmeier, LMU Munich, Germany	
	Study of Case: Incidence of the Transformational Leadership style in the Knowledge Tests of	
ED4012	Colegio Parques de Bogotá (IDE)	
17:10-17:25	Jesús. Mantilla, Juan. Lagos and Brayan. Agudelo	
	Presenter: Jesús. Mantilla, Corporación Universitaria Minuto de Dios, Colombia	

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Topic: Blended Learning, Blended Teaching, and Flipped Classroom		
Session Chair: Assoc. Prof. Bo Qin, Shenyang Jianzhu University, China		
Time: 15:25-17:25, September 27, 2023 (UTC+2)		
	Online Room B: 889 9382 6644 (Passcode: 2023)	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.	
**Presenters a	re recommended to stay for the whole session in case of any absence.	
***After the se	ssion, there will be a group photo for all presenters in this session.	
ED2003	Corpus-based Writing Pedagogy of Quality Education	
15:25-15:40	Shuo Zhao and Liu Fan	
15:25-15:40	Presenter: Shuo Zhao, Communication University of China, China	
	The Influence on Undergraduate Students' Critical Thinking Skills through the Integration of	
ED1203	Outside-In Blended Learning Activities in Problem-Based Learning Environment	
15:40-15:55	Qingzhu Ye and Alex Wing Cheung Tse	
	Presenter: Qingzhu Ye, The University of Hong Kong, China	
	Knowledge Graph Analysis of Digital Teaching Evaluation Research: A Bibliometric Study	
ED1046 15:55-16:10	Based on WoS	
	Ruiman Xu	
	Presenter: Ruiman Xu, Shaanxi University of Science and Technology, China	
ED1033	An Educational Model for Teaching PLC Programming incorporating Soft Skills	
16:10-16:25	Israel Zamora-Hernandez, Miguel X. Rodriguez-Paz and Jorge A. González-Mendívil	
10:10-10:25	Presenter: Israel Zamora-Hernandez, Tecnologico de Monterrey, Mexico	
	Teach Students to Study Using Quizzes, Study Behavior Visualization, and Reflection: A Case	
ED1086	Study in an Introduction to Programming Course	
16:25-16:40	Marcia Moraes, Albert Lionelle, Sudipto Ghosh and James Folkestad	
	Presenter: Marcia Moraes, Colorado State University, United States	
	Authorship Identification Methods in Automation of Student Works Checking	
ED1205 16:40-16:55	Ilya Trukhanovich	
	Presenter: Ilya Trukhanovich, Belarusian State University of Informatics and	
	Radioelectronics, Belarus	
ED1081	Gamification in Higher Education: Learning Computer Science with an Escape Room	
	Lydia Velazquez-Garcia, Antonio Cedillo-Hernandez and Eduardo A. Cendejas-Castro	
16:55-17:10	Presenter: Antonio Cedillo-Hernandez, Tecnologico de Monterrey, Mexico	
ED1043	Overcoming Teaching Challenges in Online Media Production Courses	
17:10-17:25	Semih Bedir and Mariah Hagadone-Bedir	
1/:10-1/:25	Presenter: Semih Bedir, University of Dayton, USA	

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Topic: Artificial Intelligence in Education and AI-Based Teaching		
Session Chair: Assoc. Prof. Heng Luo, Central China Normal University, China		
Time: 07:00-08:45, September 28, 2023 (UTC+2)		
	Online Room A: 893 3215 2596 (Passcode: 2023)	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.	
**Presenters a	re recommended to stay for the whole session in case of any absence.	
***After the se	ssion, there will be a group photo for all presenters in this session.	
	Educational Technology in the Post-Pandemic Era: Current Progress, Potential, and	
ED1171	Challenges	
07:00-07:15	Zhuojing Zhang and Sarrah Wasie	
	Presenter: Zhuojing Zhang, Liberty University, United States	
ED1088	Reflection on Online Teaching and Learning – Make It Entertaining, and I will Learn!	
07:15-07:30	Enosha Hettiarachchi	
07.13 07.30	Presenter: Enosha Hettiarachchi, University of Colombo, Sri Lanka	
	The Application Landscape and Research Status of Artificial Intelligence in Language	
ED1148	Learning: A Visual Analysis	
07:30-07:45	Xiaojiao Chen, Keke Zhu, Yuhui Jing and Chengliang Wang	
	Presenter: Xiaojiao Chen, Zhejiang University of Technology, China	
	Research on the Construction of Intelligent Programming Platform Based on AI-generated	
ED1193	Content	
07:45-08:00	Hao Wu, Daidong Fa, Xiaoling Wu, WeiJun Tan, Xiwen Chang, Ying Gao and Jinta Weng	
	Presenter: Hao Wu, Guangzhou University, China	
	Blended Teaching Construction based on Learning Circle Theory—A Case Study of	
ED1190	Educational Information Technology Curriculum	
08:00-08:15	Shuo Wang and Tianwei Xu	
	Presenter: Shuo Wang, Nationalities Yunnan Normal University, China	
	Development History and Frontier Trends of Natural Language Processing Technology in	
ED1024	Education: A Knowledge Graph-Based Visualization Analysis	
08:15-08:30	Hanbing Xue	
	Presenter: Hanbing Xue, Shandong Normal University, China	
	Research on the Digital Literacy Model Construction and Practice of Higher Vocational	
ED1077	Students in the Digital Era	
08:30-08:45	Shian Huang, Jing Xu, Qi Sang and Zeguo Shao	
	Presenter: Shian Huang, Wuxi Vocational Institute of Commerce, China	

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Topic: Virtual Learning and Technology-Enhanced Learning Session Chair: Assoc. Prof. Hui-Yu Yang, Guangdong University of Petrochemical Technology, China		
Time: 07:00-08:45, September 28, 2023 (UTC+2)		
	Online Room B: 889 9382 6644 (Passcode: 2023)	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.	
	re recommended to stay for the whole session in case of any absence.	
	ssion, there will be a group photo for all presenters in this session.	
	Analysis of the Course Design of "Financial Analysis" Based on Big Data Technology	
ED2004	Chunmei Bai and Ziyi Yang	
07:00-07:15	Presenter: Chunmei Bai, Modern College of Northwestern University, China	
ED1047	Design and Application of AR-based 3D Courseware for Elderly Education	
ED1047	Jiefei Chen	
07:15-07:30	Presenter: Jiefei Chen, Jingan Branch Campus, ShangHai Open University, China	
	Characteristics and Development Trend of Learning Motivation in International Blended	
ED1185	Learning EnvironmentVisual Analysis Based on Web of Science Literature from 2011 to	
07:30-07:45	2021	
07:30-07:45	Xuexue Gao, Na Zhu, Yu Zeng, Yuhan Dong, Wenshuang Ge and Shutian Liu	
	Presenter: Yuhan Dong, Shaanxi Normal University, China	
	The Student-Centered Virtual E-Learning Community Model: A Case Study on Digital	
ED1085	Philosophy Club	
07:45-08:00	Gang Li and Xiaoyue Li	
	Presenter: Xiaoyue Li, Shenyang Jianzhu University, China	
	Collaboration and Orchestration in a Virtual Teaching Organization for Environmental	
ED2005	Education	
08:00-08:15	Fenghua Li, Mei Wang, Chunfang Zhou, Maria Inmaculada Navarro Gonzalez, Chong Han and	
	Yong Li	
	Presenter: Fenghua Li, Northeastern University, China	
ED1075 08:15-08:30	Evaluation of Factors Affecting Actual Use of Virtual Laboratories Among Senior High School	
	in the Near End of the COVID-19 Pandemic	
	Ardvin Kester S. Ong, Jan Gabriel I. Garbo and Ma. Janice J. Gumasing	
	Presenter: Ardvin Kester S. Ong, Mapúa University, Philippines	
	An Experimental Study of ChatGPT-Assisted Improvement of Chinese College Students'	
ED1195	English Reading Skills: A Case Study of Dear Life	
08:30-08:45	Xiya Wang and Yang Feng	
	Presenter: Yang Feng, Zhejiang International Studies University, China	

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Topic: ICT Integrated Education and Digital Teaching	
Session Chair: Prof. Mike Joy, University of Warwick, UK	
Time: 10:00-12:15, September 28, 2023 (UTC+2) Online Room A: 893 3215 2596 (Passcode: 2023)	
*Drocontors or	
	e recommended to enter the meeting room 10 mins in advance.
	re recommended to stay for the whole session in case of any absence.
***After the se	ssion, there will be a group photo for all presenters in this session.
	Game-Based Learning to Enhance Students Logical Thinking Abilities in Primary School
ED1052	Mathematics
10:00-10:15	Huilin Liang and Jirarat Sitthiworachart
	Presenter: Huilin Liang , King Mongkut's Institute of Technology Ladkrabang, Thailand
	Quasi-Experiment: Impact of Learning with Digital Storytelling on Grade Eight Students'
ED1200	Self-Efficacy in Physics in Mainland China
10:15-10:30	Jinghan Ren and Alex Wing Cheung Tse
	Presenter: Jinghan Ren, The University of Hong Kong, China
	Project Driven Practical Teaching Reform Based on U+EEC - Taking the Course "Engineering
ED1172 10:30-10:45	Training II" as an Example
	Xin Wang, Mingxing Du, Jinglei Zhang and Xiaoping He
	Presenter: Xin Wang, Tianjin University of Technology, China
ED1155	Construction and Practice of Computational Thinking Structural Framework with
	Sternberg's Intellectual Education Theory
10:45-11:00	Wei Zhang, Lingling Song, Xujun Huang and Yi Wang
	Presenter: Lingling Song, Central China Normal University, China
	Research on the Application of VR Technology into Practical Teaching Course, Taking the
ED1168	Artistic Human Anatomy Course of Design Specialty as an Example
11:00-11:15	Manyu Zhang
	Presenter: Manyu Zhang, Tianjin Academy of Fine Arts, China
ED1201 11:15-11:30	A Teacher Action Recognition Model Based on Pre-Trained Language and Video Model
	Sen Luo, Juxiang Zhou, Xiaoyu Wen and Hao Li
	Presenter: Sen Luo, Yunnan Normal University, China
ED1194 11:30-11:45	Digitalized Foreign Languages Teaching Reform in Chinese Universities: An Experiment on
	the Application of the Multilingual Database Platform
	Yang Feng and Xiya Wang
	Presenter: Yang Feng , Zhejiang International Studies University, China
	Caring for Visually Impaired Children: A Novel Multi-Sensory Educational Teaching Toy
ED1178	Bowen Zhang, Yue Qiu, Yuxin Tian
11:45-12:00	Presenter: Bowen Zhang, Beijing Institute of Technology, China
<u> </u>	Exploring the Attitudes of University Students Towards Using Flipped Classroom Strategy
ED1106	Fahad AlKhezzi and Zahraa Abu Alloul
12:00-12:15	Presenter: Zahraa Abu Alloul, Kuwait University, Kuwait
	resence. Lantaa Abu Anoui, Kuwalt Oniversity, Kuwalt

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Topic: Online Learning and Students' Attitudes towards Online Learning Session Chair: Assoc. Prof. Cecilia Goria, University of Nottingham, UK Time: 10:00-12:15, September 28, 2023 (UTC+2) Online Room B: 889 9382 6644 (Passcode: 2023)	
*Presenters ar	e recommended to enter the meeting room 10 mins in advance.
**Presenters a	re recommended to stay for the whole session in case of any absence.
***After the se	ssion, there will be a group photo for all presenters in this session.
ED1074	A Structural Equation Modeling Analysis for Online Learning Satisfaction in the Philippines
10:00-10:15	Ardvin Kester S. Ong, Jan Gabriel I. Garbo and Josephine D. German
10:00-10:15	Presenter: Ardvin Kester S. Ong, Mapúa University, Philippines
ED1082	Impact of Role Assignment and Time-Frame on Asynchronous Online Discussion: A Quasi- Experiment
10:15-10:30	Mindi Wang, Yumu Li, Zhili Zhang, Panpan Duan, Xiang Li, Yanan Wang, Ling Jiang and Heng Luo
	Presenter: Mindi Wang, Central China Normal University, China
	Research on the Relationship Between Learning Engagement and Learning Performance in
ED1137	Online Learning
10:30-10:45	Longcheng Lin and Fang Wang
	Presenter: Longcheng Lin, Nantong Health college of Jiangsu Province, China
ED1015	An Empirical Study on Student Satisfaction of Smart Classroom Use
10:45-11:00	Huiling Su, Ziqi Yan, Yingying Luo, Xuerou Zhao and Lichun Liu
10:45-11:00	Presenter: Huiling Su, Xiamen University, China
	The Influence of Creating and Sharing English Video on Social Media Platform on the
ED1109	Willingness to Communicate in English of Chinese Sophomore Majoring in English: A Case Study
11:00-11:15	Yanwen Zheng and Alex Wing Cheung Tse
	Presenter: Yanwen Zheng, Hongkong University, China
ED1050 11:15-11:30	Language, Culture, Information and Curriculum: A Case Study of Developing Students' Information Literacy and Global Communicative Competence
	Li Cheng
	Presenter: Li Cheng, Beijing University of Posts and Telecommunications, China
ED1113 11:30-11:45	A Novel Two-Stage Personalized Learning Path Recommendation Approach for E-learning
	Yaqian Zheng, Yaping Xu, Deliang Wang, Sirui Chen, Mingze Sun, Yanyan Li and Fan Gao
	Presenter: Yaqian Zheng, Beijing Normal University, China
ED1073 11:45-12:00	Antecedent Determination of Factors Affecting Online Learning Experience Among Primary
	Students Using Random Forest Classifier
	Ardvin Kester S. Ong, Jan Gabriel I. Garbo and Alberto C. Villaluz
	Presenter: Ardvin Kester S. Ong, Mapúa University, Philippines
	Automatic Recognition and Analysis of Academic Emotions Based on Facial Expressions
ED1091	during Online Learning Environments
12:00-12:15	Yaping Xu, Yaqian Zheng, Keru Li and Yanyan Li
	Presenter: Yaping Xu, Beijing Normal University, China

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Тој	pic: Computer Science Education and Cultivation of Computational Thinking	
Session Chair: Assoc. Prof. Li Cheng, Beijing University of Posts and Telecommunications, China		
Time: 13:30-15:45, September 28, 2023 (UTC+2)		
	Online Room A: 893 3215 2596 (Passcode: 2023)	
*Presenters are	e recommended to enter the meeting room 10 mins in advance.	
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***After the se	ssion, there will be a group photo for all presenters in this session.	
ED1056	Automatic Topic Terms Identification from OER	
13:30-13:45	Veronica Segarra-Faggioni and Audrey Romero-Pelaez	
15:50-15:45	Presenter: Veronica Segarra-Faggioni, Universidad Tecnica Particular de Loja, Ecuador	
	The Effects of a Progressive Scaffolding Approach on Middle School Students' Computational	
ED1136	Thinking Skills and Self-Efficacy	
13:45-14:00	Feifei Xi, Tianyu Xiao, Xiaofei Li, Yafei Hu and Hongliang Ma	
	Presenter: Xiaofei Li, Shaanxi Normal University, China	
ED1152	Do Current Online Coding Tutorial Systems Address Novice Programmer Difficulties?	
ED1152	Ohud Alasmari, Jeremy Singer and Mireilla Bikanga Ada	
14:00-14:15	Presenter: Ohud Alasmari, University of Glasgow, UK	
ED1031 14:15-14:30	Addressing Misconceptions in Introductory Programming: Automated Feedback in	
	Integrated Development Environments	
	Björn Fischer, Fabian Birk, Eva-Maria Iwer, Sven Eric Panitz and Ralf Dörner	
	Presenter: Björn Fischer, RheinMain University of Applied Sciences, Germany	
ED1042	E-assessment in Computer Science Higher Education	
ED1042	Safiah Alamr, Manuel Urrutia and Leslie Carr	
14:30-14:45	Presenter: Manuel Urrutia, University of Southampton, UK	
ED1089-A	Teachers' Perspectives on a Constructionist Approach to Teaching Computational Thinking	
	Simona Holstein and Anat Cohen	
14:45-15:00	Presenter: Simona Holstein, Tel Aviv University, Israel	
	Exploring the Potential of a Pronunciation Guide App to Support Non-Native Speaking	
ED1211 15:00-15:15	Students in Higher Education	
	David Western	
	Presenter: David Western, University of the West of England, UK	
ED1121 15:15-15:30	Promoting Scientific Inquiry in Physics Students through the Use of Simulators	
	Benjamín Maraza-Quispe, Nicolás Esleyder Caytuiro-Silva, Erick Abel Arizaca-Machaca,	
	Diego Alonso Condori Huaracha, Fernando Pacori Aviles and Walter Cornelio Fernandez	
	Gambarini	
	Presenter: Nicolás Esleyder Caytuiro Silva, Universidad Católica de Santa María de	
	Arequipa, Perú	
	Exploring Teachers' Perceived Competence in STEM Education in a National Pilot Middle	
ED1210	School of STEM Education in Mainland China	
15:30-15:45	Chunyang Liao and Alex Wing Cheung Tse	
10.00 10.10	Presenter: Chunyang Liao, The University of Hong Kong, China	

University of Barcelona, Barcelona, Spain

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Topic: STEM Education and Education Management	
Session Chair: Mr. Piergiorgio Guarini, University of Foggia, Italy	
Time: 13:30-15:45, September 28, 2023 (UTC+2)	
Online Room B: 889 9382 6644 (Passcode: 2023)	
*Presenters are recommended to enter the meeting room 10 mins in advance.	
**Presenters are recommended to stay for the whole session in case of any absence.	
***After the session, there will be a group photo for all presenters in this session.	
A Survey of Pre-service and In-service Biology Teachers' Technological Pedagogical Content	
ED1199	Knowledge (TPACK) in Implementing STEM Education
13:30-13:45	Fei Chen and Alex Wing Cheung Tse
	Presenter: Fei Chen, The University of Hong Kong, China
	How Academic Training in STEM Helps to Break Gender Barriers after Graduation
ED1034 13:45-14:00	Israel Zamora-Hernandez, Miguel X. Rodriguez-Paz and Jorge A. González-Mendívil
	Presenter: Israel Zamora-Hernandez, Tecnologico de Monterrey, Mexico
	Visualizing the Landscape of Doctoral Education in China over a Decade: A Scientometric
ED1128 14:00-14:15	Analysis Using CiteSpace and VOSviewer
	Jie Lin and Xin Luo
	Presenter: Jie Lin, Shanghai Jiao Tong University, China
ED1001	Research on the Influencing Factors of the Precise Supply of Rural Vocational Education
ED1001 14:15-14:30	Under the Strategy of Rural Revitalization
	Bing Xiao and Xuelan Ma
	Presenter: Xuelan Ma, Guangdong Polytechnic Normal University, China
ED1040 14:30-14:45	Towards a Descriptive Language to Explicitly Define the Activities' Dependencies in Project-
	Based Learning
	Youcef Haddou, Omar Talbi, Abdelkader Ouared and Abdelhafid Chadli
	Presenter: Youcef Haddou, University of Tiaret, Algeria
ED1076 14:45-15:00	The Mediation Effect of Teacher Efficacy Between Professional Development and Teacher
	Stress: An Empirical Study to Investigate Their Relationship
	Xun Bu
	Presenter: Xun Bu, Shanghai Normal University Tianhua College, China
ED1118 15:00-15:15	Promoting Educational Innovation in Engineering Through the Design of a Student Centered
	and Technology Mediated Formative Proposal
	Carolina Parra Estrada
	Presenter: Carolina Parra Estrada, Corporación Universitaria Minuto de Dios, Colombia
ED1202 15:15-15:30	The Professional Identity of Primary Mathematics Teachers and Their Intention to
	Implement STEM Education in Mainland China
	Ruoying Xie and Alex Wing Cheung Tse
	Presenter: Ruoying Xie, The University of Hong Kong, China
ED3012 15:30-15:45	Human and Technology Mediation for Effective Blended Learning in Digital Higher
	Education
	El Hadji Yaya Koné
	Presenter: El Hadji Yaya Koné, University of Ottawa, Canada

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