



3rd International Conference on Advanced Learning Technologies for Education & Research

Hybrid event: December 13th to 15th, 2023



CONFERENCE PROGRAM



ORGANIZED BY:



UNIVERSIDAD NACIONAL
PEDRO RUIZ GALLO



UPC
Universidad Peruana
de Ciencias Aplicadas

INDEXING IN:

IEEE Xplore®
Digital Library

TECHNICAL SPONSOR:

IEEE
Education Society
Peru Chapter

IEEE Peru Section

Welcome message

[REGISTRATION](#)

On behalf of Conference Committee, welcome to the 3rd International Conference on Advanced Learning Technologies for Education & Research (ICALTER 2023), which will be hosted in Chiclayo, Peru during December 13th to 15th, 2023, a hybrid event.

The conference has been planned so that participants from academic institutions, researchers, teachers and education professionals take part in the conference and share their experiences on digital transformation in the teaching and learning field. We hope this is a memorable and valuable experience for you, and that you will enjoy discovering the research, insights, practical knowledge, and personal contacts available to you. Many members of the organizing team worked very hard to turn our initial visions for this conference into reality, we would like to warmly thank all organizing committee members for their dedication before and after this unique event. Our final thanks would go to the authors, thanks for your support to our conference.

We hope that all participants and other interested readers benefit from and enjoy the presentations and proceedings and also find it stimulating in this process. We pursue higher and better international conference; your suggestions and comments are welcome.

Conference Organizing Committee

Presentation tips

Zoom and in-person presentation tips.

Test before meeting

- [Click to learn how to use Zoom application.](#)
- Prior to the formal meeting, presenter shall join the test room to make sure everything is on the right track.

Environment and equipment

- A quiet place, Stable Internet connection, Proper lighting, and background.
- A computer with internet and camera, Earphone (if applicable).

Formalize your name while entering meeting

- Committee/Keynote/Invited Speaker/ Workshop facilitator: Position – Name.
- Authors/Listeners: Session No. – Paper ID – Name.

Oral presentation time

- Use the assigned time correctly, distributing 15 minutes for the presentation of the accepted paper and 5 minutes for answering questions.
- For in-person attendees, the conference will take place in the EPICL Laboratories of the Pedro Ruiz Gallo National University // Laboratorios de EPICL (Escuela Profesional de Ingeniería en Computación e Informática) de la Universidad Nacional Pedro Ruiz Gallo.

Conference agenda

Day 01 - Wednesday, December 13th, 2023

08:20 - 08:30 (GTM-5)	Opening Ceremony
08:30 - 9:30 (GTM-5)	Plenary Session: "Digitally Competent Teachers for a Developed Society" Speaker: Dr. Luis Marqués Molías
9:30 - 10:50 (GTM-5)	Parallel session
10:50 - 11:00 (GTM-5)	Session Break
11:00 - 12:00 (GTM-5)	Plenary Session: "De-digitization: Redefining our Digital Understanding in Education" Speaker: Antonio González Grez
12:00 - 13:20 (GTM-5)	Parallel session

Day 02 - Thursday, December 14th, 2023

08:20 - 08:30 (GTM-5)	Opening Ceremony
08:30 - 9:30 (GTM-5)	Plenary Session: "The future of education: What is the role of Generative AI?" Speaker: Dr. Anna Pons Vilaseca
9:30 - 10:50 (GTM-5)	Parallel session
10:50 - 11:00 (GTM-5)	Session Break
11:00 - 12:00 (GTM-5)	Plenary Session: "The TPACK model for the redesign of training experiences" Speaker: Dr. Lea Sulmont Haak
12:00 - 13:20 (GTM-5)	Parallel session

Day 03 - Friday, December 15th, 2023

08:20 - 08:30 (GTM-5)	Opening Ceremony
08:30 - 9:30 (GTM-5)	Plenary Session: "Artificial Intelligence and Knowledge Construction: A Real Paradigm Change" Speaker: Dr. Manuel Etesse
9:30 - 10:50 (GTM-5)	Parallel session
10:50 - 11:00 (GTM-5)	Session Break
11:00 - 12:00 (GTM-5)	Plenary Session: "Artificial Intelligence Applications for Science Education" Speaker: Dr. Angel Deroncele-Acosta
12:00 - 13:20 (GTM-5)	Parallel session
13:20 - 13:40 (GTM-5)	Closure

International keynote speakers

Renowned researchers with an academic background in the field of education through technology, willing to share their experiences and knowledge with a strong interest in the digital transformation of teaching and learning.



PhD. Manuel Etesse

Consultor at the International Rescue Committee and Professor of the Academic Department of Social Sciences of the Pontificia Universidad Católica del Perú (PUCP).



Dr. Angel Deroncele-Acosta

Research Professor at Universidad San Ignacio de Loyola and Thesis Director of the Master's Degree Program at the Universidad Internacional de Valencia (VIU).



Antonio González Grez Grezan

Living Lab Coordinator at the IFE Living Lab of the Institute for the Future of Education of the Tecnológico de Monterrey. Alternate Researcher at the Didactic Research Group of the Universidad de Sevilla.



Dr. Luís Marqués Molías

Professor of the Department of Pedagogy at Universitat Rovira i Virgili (URV) and member of the Applied Research Group in Education and Technology (ARGET).



Dr. Anna Pons Vilaseca

Project Lead of the OECD Global Teaching Insights and the Schools + Network, Analyst and consultant in educational policies and practices.



Dr. Lea Sulmont Haak

Professor of Education and Learning Management at the Universidad Peruana de Ciencias Aplicadas (UPC), and International Education Consultant.

Parallel sessions – Wednesday, December 13th, 2023

	ROOM A	ROOM B
08:20 – 08:30 (GTM-5)	Opening Ceremony	
08:30 – 09:30 (GTM-5)	Plenary Session: “Digitally Competent Teachers for a Developed Society” Speaker: Dr. Luis Marqués Molías.	
09:30 – 09:50 (GTM-5)	PAPER 120: Synthetic Data Generation for Engineering Education: A Bayesian Approach. <i>Pallavi Singh.</i>	PAPER 46: The advertising discourse of menstrual activism in the femcare industry. <i>Sarah Alessandra Gonzales Meza and Melina Haydeé Mezarina Castilla.</i>
09:50 – 10:10 (GTM-5)	PAPER 14: Study on Application of Information and Communication Technologies to Chinese Curriculum Ideology and Politics. <i>Junxia Ma, Zhifeng Zhang, Ming Chen, Peipei Gu and Bo Wang.</i>	PAPER 64: Longitudinal Study of Critical Thinking in Fieecs-uni Students. <i>Antonietta Macedo Dávila.</i>
10:10 – 10:30 (GTM-5)	PAPER 2: Adequate indicators for the application of inclusive education in initial education. <i>Raisa Emilia Bernal Cerza, Segundo Moisés Toapanta Toapanta, Ignacio Garcia Álvarez and Carlos Esteban Gómez Avilés.</i>	PAPER 72: Adapting Assessment during the COVID-19 pandemic. <i>Jorge Luis Gutiérrez Gutiérrez, Angely Yahayra Mendez Cruz, Ciara Solange Mendez Cruz and Yenny Milagritos Sifuentes Diaz.</i>
10:30 – 10:50 (GTM-5)	PAPER 91: Automation of the psychological care process in university students using machine learning. <i>Daniel Burga-Durango, Jeremy Galindo Arroni and Cristhian Acasiete Tresierra.</i>	PAPER 100: Empowering Electronics Learning through a Hands-on Approach: Arduino Projects in the Classroom. <i>Hugo Moncayo, Lidya Alulima, Margarita Mena and Luis Zarate.</i>
10:50 – 11:00 (GTM-5)	Session Break	
11:00 – 12:00 (GTM-5)	Plenary Session: “De-digitization: Redefining our Digital Understanding in Education” Speaker: Antonio González Grez.	
12:00 – 12:20 (GTM-5)	PAPER 17: What are the motivating factors that influence the intention to watch live-streaming video games? <i>Rafael Florian Castro</i>	PAPER 61: Development framework to evaluate the process of training researchers in universities. <i>Carlos Andres Guerra Bendezú, Rafael Vásquez Rodríguez and Víctor Carranza Elguera.</i>
12:20 – 12:40 (GTM-5)	PAPER 21: Panorama of Peruvian Primary Education Teachers Trained in ICT Use before COVID-19 Pandemic. <i>Milton Gonzales-Macavilca and Maricielo Aguinaga-Villegas.</i>	PAPER 95: Self-assessment and co-assessment to improve oral competence in university students in the remote education modality. <i>María de Los Ángeles Sánchez-Trujillo, Delia Felícita Sáenz-Egúsqiza, Estefanía Bernabé-Sanchez and Marianella Suárez-Pizzarello.</i>
12:40 – 13:00 (GTM-5)	PAPER 41: Feminist Thought and Film: A Review of the Literature. <i>Shaony Marlene Severino-Cueva, Carla Gianinna Cormán-Chávez, Adriana Margarita Turriate Guzmán and Guisseppi Paul Morales Cauti.</i>	PAPER 99: Entrepreneurial skill for engineering students in the 21st Century: impact of technology. <i>Katherine Delgado Vargas, Claudio Gaete Peralta and Álvaro Toledo San Martín.</i>
13:00 – 13:20 (GTM-5)	PAPER 117: Development of a mobile application for learning sign language using machine learning in the city of Huancayo. <i>Carlos De la Calle, Geovany De la Cruz, Michael Galván and Jorge Guevara.</i>	PAPER 106: Machine learning model for the prediction of landslides due to the “El Niño” phenomenon in Peruvian educational institutions. <i>Ronald Edward Mansilla Musaja and Antonio Arroyo Paz.</i>

Parallel sessions – Thursday, December 14th, 2023

	ROOM A	ROOM B
08:20 – 08:30 (GTM-5)	Opening Ceremony	
08:30 – 09:30 (GTM-5)	Plenary Session: “The future of education: What is the role of Generative AI?” Speaker: Dr. Anna Pons Vilaseca.	
09:30 – 09:50 (GTM-5)	PAPER 8: Knowledge of cybersecurity against social cybercrime of high school students. <i>Yasmina Beatriz Riega Virú, Kiara Nilupú Moreno, Juan Luis Salas Riega and Mario Edison Ninaquispe Soto.</i>	PAPER 23: Pedagogical Support and Academic Performance in the Communication Course: A Study among Primary School Students in Los Olivos (Lima, Peru). <i>Maryhory Briceño-Huamán, María Solorzano-Chuica and Milton Gonzales-Macavilca.</i>
09:50 – 10:10 (GTM-5)	PAPER 27: Coping strategies and symptoms of psychological disorders in Peruvian university students during the COVID-19 pandemic an explanatory model. <i>Yesenia Huanca Marcellini and Jesus Manuel Aparicio Nizama.</i>	PAPER 49: Gamification in the Teaching of Ecology for University Students. <i>Marcos Vera-Morales, Veris Saldarriaga Lucas, Galo Cedeño García and Leonardo Leon Castro.</i>
10:10 – 10:30 (GTM-5)	PAPER 69: Digital Literacy in Basic Secondary School Students: A Gender Comparative Study. <i>Kelly Cristina Vásquez Huatay, Ana Patricia Mendoza Mendoza, Juan Cesar Farias Rodríguez and Jose Carlos Montes Ninaquispe.</i>	PAPER 79: Motivation and Academic Performance in the Communication Course: The Case of Primary School Students in Comas (Lima, Peru). <i>Leslie China-Quiroz, Deinny Marín-Rodríguez and Milton Gonzales-Macavilca.</i>
10:30 – 10:50 (GTM-5)	PAPER 77: Development of capabilities in engineering teachers, for greater relevance in social research <i>Jose Romero Cieza.</i>	PAPER 87: Digital Competence of Mathematics teachers based on DigCompEdu in Regular Basic Education in the Lambayeque region. <i>Victor Chung, Jessie Bravo, Armando Moreno Heredia and Roger Alarcón.</i>
10:50 – 11:00 (GTM-5)	Session Break	
11:00 – 12:00 (GTM-5)	Plenary Session: “The TPACK model for the redesign of training experiences” Speaker: Dr. Lea Sulmont Haak	
12:00 – 12:20 (GTM-5)	PAPER 5: Representation of Afrodescendant Women in Digital Advertising. Case: Natalia Barreda as a Digital Storyteller. <i>Andrea Egusquiza Bellido and Maria Jose Castro Bernardini.</i>	PAPER 18: An analysis of IoT technology education based on UIFLOW. <i>José Varela-Aldás, Christian Junta-Andagana and Carlos Bran.</i>
12:20 – 12:40 (GTM-5)	PAPER 22: Exploring the perceptions of primary school students from public schools in Carabayllo (Lima, Peru) regarding Project-Based Learning (PBL). <i>Jenifer Sánchez-Espinoza and Milton Gonzales-Macavilca.</i>	PAPER 29: The Mediating Effect of ICT on the Relationship Between Innovative Capacity and Student Satisfaction. <i>Julie Catherine Arbulú Castillo, Mary Llamo Burga, Juana Graciela Palma Vallejo and Jose Carlos Montes Ninaquispe.</i>
12:40 – 13:00 (GTM-5)	PAPER 58: Digital communication of brands in post-pandemic times. <i>Manuel Romero-Mamani, Davide Solari-Martin and Eliana Gallardo-Echenique.</i>	PAPER 101: The didactic experience in a biomedical engineering course at a Peruvian university. <i>Lewis De La Cruz, Moises Meza, Jose Cáceres and Paulo Vela.</i>
13:00 – 13:20 (GTM-5)	PAPER 98: Review of the literature on the difficulties that students experience when preparing their university thesis. <i>Rafael Vasquez Rodriguez, Carlos Guerra Bendezu and Victor Humberto Carranza Elguera.</i>	PAPER 92: Specialist-Woman Interaction System for Female Empowerment in Cases of Discrimination and Gender Violence. <i>Daniel Burga-Durango, Wenceslao Arrascue Casara and Jeff Soto Echea.</i>

Parallel sessions – Friday, December 15th, 2023

	ROOM A	ROOM B
08:20 – 08:30 (GTM-5)	Opening Ceremony	
08:30 – 09:30 (GTM-5)	Plenary Session: "Artificial Intelligence and Knowledge Construction: A Real Paradigm Change" Speaker: Dr. Manuel Etesse.	
09:30 – 09:50 (GTM-5)	PAPER 3: School evaluation and artificial intelligence. <i>Miguel Cobos and Henry Cherres.</i>	PAPER 12: Impact of the pandemic on school dropout: Multidimensional analysis. <i>Aracelly Fernanda Núñez-Naranjo, Corina Núñez-Hernández, Diego Iván Escobar-Bermudes and Isabel Berruz-Uca.</i>
09:50 – 10:10 (GTM-5)	PAPER 11: Artificial intelligence and logistics services: a systematic literature review. <i>Alberto Villanueva Eslava, Yasmina Beatriz Riega Virú, Kiara Nilupú Moreno and Juan Luis Salas Riega.</i>	PAPER 54: Higher education student's attitude towards using gamification and its relation with achievement. <i>Magna Guerrero Celis, Soraya Yrigoyen Fajardo, Giovanna Vassallo Sambuceti and Rossana Barros.</i>
10:10 – 10:30 (GTM-5)	PAPER 55 Exploration of Emotional Characteristics in 2nd Grade Elementary Students from the District of Independencia, Lima (Peru). <i>Denisse Ore-Betancur, Sandy Alarcon-Luna and Milton Gonzales-Macavilca.</i>	
10:30 – 10:50 (GTM-5)	PAPER 119: Development and Evaluation of a Computerized Didactic Guide with Mathematical Foundations for the Teaching-Learning of Physics. <i>Luis Miguel Balladares Pico, Carlos Alberto Espinosa-Pinos and María Giovanna Núñez-Torres.</i>	PAPER 121: Proposal for a gamified educational mobile application to improve the learning process <i>Keneth Lopez, Joel Muñoz and Igor Aguilar-Alonso.</i>
10:50 – 11:00 (GTM-5)	Session Break	
11:00 – 12:00 (GTM-5)	Plenary Session: "Artificial Intelligence Applications for Science Education" Speaker: Dr. Angel Deroncele-Acosta	
12:00 – 12:20 (GTM-5)	PAPER 24: The Mediating Role of Satisfaction in Enhancing the Perception of Progress through Interaction in Online Learning. <i>Jose Carlos Montes Ninaquispe, María de Los Ángeles Guzmán Valle, Karol Melissa Arbaiza Godos and Stephanie Virginia Ruiz Chacon.</i>	PAPER 44: Validity and reliability of the ACL21 for evaluating online collaborative learning. <i>Madeleine Lourdes Palacios-Núñez, Alexander Toribio-López, Herbert Robles-Mori and Angel Deroncele-Acosta.</i>
12:20 – 12:40 (GTM-5)	PAPER 52: Gamification and programming: enhancing mathematics learning in students. <i>Nicol del Carmen Solano Gonzales, Karla Cecilia Reyes Burgos, Huilder Juanito Mera Montenegro and Hector Miguel Zelada Valdivieso.</i>	PAPER 116: Searching lost dog by breeds sorting using computer vision and deep neural networks <i>Javier Mendoza-Montoya, Flavio Abel Yancapallo Coarite, Gustavo Walther Paredes Quispe and Antonio Arroyo Paz.</i>
12:40 – 13:00 (GTM-5)	PAPER 60: Strategic Decision Making in Public and Private Organizations: Challenges and Solutions. <i>Jose A. Salinas Ortiz.</i>	PAPER 81: Audit model using controls from ISOIEC 27002 for the information security of electronic voting based on IoT and Blockchain. <i>Edson Paredes, Marco Mendez and Jymmy Dextre.</i>
13:00 – 13:20 (GTM-5)	PAPER 66: Design of a crowdlending system for formalized SMEs based on smart contracts in Metropolitan Lima. <i>Daniel Burga-Durango, Fabriccio Tornero-Cortés and Alvaro Cabrera-Campos.</i>	
13:20 – 13:40 (GTM-5)	Closure	



Prolongación Primavera 2390

Lima 15023 - Pe

icalter@ieee.org

icalter.com

ORGANIZED BY:



INDEXING IN:



TECHNICAL SPONSOR:

