



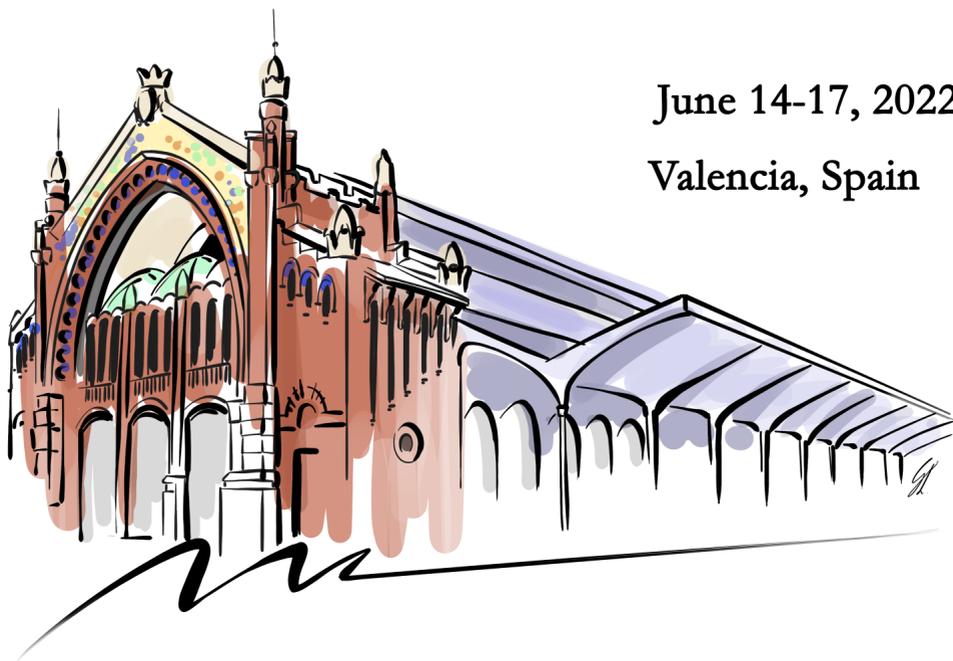
UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

# HEAd '22

8<sup>th</sup> International Conference  
on Higher Education Advances

June 14-17, 2022

Valencia, Spain





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## WELCOME MESSAGE

Welcome to the Eighth International Conference on Higher Education Advances (HEAd'22), held in Valencia, Spain, from 15 to 17 June 2022.

HEAd has adapted to the evolving mobility restrictions related to the Covid-19 pandemic, and this eighth edition is in a hybrid format for the first time: in-person and virtually, simultaneously. This made it the most complex edition in organizational terms, so far.

The pandemic is teaching us that adaptation is key, as everything may change in a very short time period. The hybrid format is the response of the HEAd conference to the changing restrictions. Once again, the conference is a great success of participation and consolidated the series of HEAd conferences as a leading forum for researchers and practitioners to exchange ideas, experiences, and research results relating to the preparation of students and the organization of higher education systems.

The selection of the papers for the scientific program was conducted by a team of 177 committee members representing 47 countries on all five continents. Following the call for papers, the conference received 270 full paper submissions with authors from 56 different countries. All the submitted papers were reviewed by at least two program committee members under a double-blind review process. Finally, 77 papers were accepted as full papers for oral presentation during regular sessions, representing an overall full paper acceptance rate of 28.5%. This selection ensures a high-quality program that is greatly valued by the research communities. Additionally, 52 submissions were accepted for short paper presentations and 34 for poster presentations, all of them receiving high review scores and published by UPV Press. The organization committee congratulates all the authors for having their papers accepted in such a competitive conference.

The contents of the program represent quite well the situation that global education is living by adapting to the mobility restrictions imposed during the Covid-19 pandemic. It is noteworthy that two of the most repeated topics are related to online and hybrid teaching. Skill and competency development is another current topic that attracted the interest of the scientific committee, together with the specificities of STEM education



Josep Domenech



and the use of digital technology to support teaching. Emerging topics such as sustainability in education and gender studies also have their room in the program.

HEAd'22 also features three keynote speakers that will overview important and current topics: Cesar Ortega-Sanchez (Curtin University, Australia) is talking about putting all the pieces together regarding student learning. The second keynote speech is delivered by José V. Benlloch-Dualde and Lenin Lemus (Universitat Politècnica de València, Spain) and deals with a hot topic in higher education: Learning analytics or how to improve the teaching and learning processes from data.

The conference is supported and hosted by the Faculty of Business Administration and Management of the Universitat Politècnica de València, which has been recently ranked as the best technical university in Spain by the Academic Ranking of World Universities (ARWU) 2021.

The organizing committee would like to thank all of those who made this year's HEAd possible. Particularly, thanks are indebted to the invited speakers, authors, scientific committee members, reviewers, session chairs, presenters, sponsors, supporters, and all the attendees, both virtual and in person. My final words of gratitude must go to the Faculty of Business Administration and Management of the Universitat Politècnica de València for supporting, once again, the HEAd conference, making it possible to become a great event.

June 2022

Josep Domenech  
General Chair

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Ana Zorio-Grima, Universitat de València, Spain  
Joerg Zumbach, University of Salzburg, Austria

# BRIEF PROGRAM

	Wednesday 15 (in-person & virtual)	Thursday 16 (in-person & virtual)	Friday 17 (virtual only)
9:00-10:30	Opening	4a. STEM Education (II) 4b. Technology in Education (II) 4c. Arts and Design 4d. Linguistics & Language Teaching (I)	8c. Innovative Learning Experiences (II) 8d. Linguistics and Language Teaching (II)
	Keynote I César Ortega		
10:30-11:00	Coffee break		
11:00-12:15	1a. Health Sciences Education (I) 1b. Learning and Educational Models 1c. Assessment and Evaluation	5a. STEM Education (III) 5b. Educational Systems 5c. Health Sciences Education (II) 5d. Business & Management Educ.	9c. STEM Education (IV) 9d. Architectural Education
12:15-13:15	1d. Technology in Education (I)	Keynote II José V. Benlloch & Lenin Lemus	Closing
13:15-14:30	Lunch break		
14:30-16:15	2a. Innovative Learning Experience (I) 2b. Online and Hybrid Learning (I) 2c. Organization of Higher Education 2d. Economics and Social Sciences Education	6a. Economics & Management Educ. 6b. Computer Science 6c. Online and Hybrid Learning (II) 6d. Entrepreneurship & Employm. (II)	
16:15-16:45	Coffee break	Poster session & Coffee break	
16:45-18:15	3a. Sustainability and Engineering 3b. Entrepreneurship & Employm. (I) 3c. Competency Development 3d. STEM Education (I)	7a. Humanities and Languages 7b. Technology in Education (III) 7c. Mobility and Out of Class Learning 7d. Health Sciences Education (III)	

Sessions a and b have **on-site** presenters:

(F) Full papers: 20 min presentation plus 5 min Q&A

(S) Short papers: 10 min presentation plus 5 min Q&A

(P) Posters

Sessions c and d have **off-site** presenters:

(F) Full papers: 15 min presentation plus 5 min Q&A

(S) Short papers & (P) Posters: 10 min presentation plus 5 min Q&A



KEYNOTE

# STUDENT LEARNING: PUTTING THE PIECES TOGETHER

**Cesar Ortega-Sanchez**

Wednesday 15, 9:30-10:30

Room: Salón de Actos (Conference Hall)

Cesar is a Senior Fellow of the Higher Education Academy and Fellow of the Curtin Academy. He is currently the academic lead of the Engineering Foundation Year at Curtin University and is an associate professor in the School of Electrical Engineering, Computing and Mathematical Sciences. He is interested on how social and technological changes affect education, and what can be done to facilitate learning and teaching. He is a regular contributor in higher education conferences as presenter and keynote speaker. His favourite topics are curriculum and assessment design, first year experience, project-based learning and capstone projects.



César Ortega-Sánchez

Education has become a very complex activity. Students (and academics) have to learn how to navigate an ocean of information, technologies, social trends and personal preferences. On top of that, the Covid pandemic forced schools and universities to facilitate learning via online contents and activities. Some students are not coping well with all these challenges. In his talk Cesar will explain how some students seem to have lost the ability to learn, and will ask the question: Did they ever get it? He will present the facts that led him to this conclusion and some ideas that may help students to change the way they approach learning. He will explain how learning is like putting a jigsaw puzzle together and how this simple analogy may change the way people learns and teaches.

## KEYNOTE

# LEARNING ANALYTICS OR HOW TO IMPROVE THE TEACHING & LEARNING PROCESSES FROM DATA

**José V. Benlloch Dualde & Lenin Lemus Zúñiga**

Thursday 16, 12:15-13:15

Room: Salón de Actos (Conference Hall)

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José V. Benlloch-Dualde

José V. Benlloch-Dualde earned a MSc. in Physics from the Universitat de València, and a Ph.D. in Computer Engineering from the Universitat Politècnica de València (UPV). He is currently Senior Lecturer with tenure at the School of Informatics in the UPV, where he teaches different courses related to Electronics and Educational Technology. His research interests relate to technology-enhanced learning and, more in particular, to learning analytics. He has led different innovative projects for over twenty years with a specific focus on technology-enhanced learning. He earned a Hewlett-Packard Technology for Teaching Grant Initiative, Transforming Teaching and Learning through Technology in 2008. He received the Excellence in Teaching Award from UPV in 2009. He is currently the Teaching Deputy Head of the Computer Engineering Department at the UPV.



## KEYNOTE

Dr. Lenin-Guillermo Lemus Zúñiga earned a MSc. in Computer Engineering from the "Centro de Estudios Avanzados del Insituto Politécnico de México", and he earned a PhD. in Computer Engineering from the Universitat Politècnica de València (UPV). Dr Lemus is currently Senior Lecturer with tenure at the School of Informatics in the UPV. Dr. Lemus teaches courses related to Computer Architecture and Big Data infrastructure. Dr Lemus is head of the research group FAKTUMLAB of the ITACA Institute of the UPV. His research interest are related to data governance and crypto-currency Dapps. Dr Lemus has been author and coauthor of 27 journal articles and he has participated in 28 international and national research projects.



Lenin Lemus Zúñiga

Nowadays, using digital platforms and tools is very common, regardless the educational approach. Thus, more and more data related to student activity can be gathered. Learning Analytics is about how processing these information sources to better understand and improve educational processes. In this talk, the different steps from data acquisition to dashboard creation will be presented.

## WEDNESDAY 15

### Session 1a. Health Sciences Education (I)

Wednesday 15, 11:00 – 13:15. *Room 1 and Virtual Room 1.* Chair: Betty Exintaris

(F) Integrating transversal skills into higher education in health and social care  
Nathalia Rosa, Marta Benet, Mar Carrió

(F) Introduction to bioethics through mobilization of critical thinking skills  
Jean-François Bodart, Marie-Hélène Canu, Vanessa Dehennaut, Erwan Dupont, Maxime Pauwels

(F) Contemporary pharmacology teaching methods in the Covid-19 era  
Hala Fouad Azhari

(F) A case study comparing the flipped hybrid classroom and traditional classroom in a post-graduate chemical pathology module  
Rivak Punchoo, Sachin Bhoora, Liz Wolvaardt

(S) Designing a Novel Interprofessional and Inter-University Education Session for Healthcare Trainees to Improve Interprofessional Practice  
Justine Hamilton, Ashwini Namasivayam-Macdonald, Linnéa Shackel, Heather Macphee

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### Session 1b. Learning and Educational Models

Wednesday 15, 11:00 – 13:15. *Room 2 and Virtual Room 2.* Chair: Omid Noroozi

(F) Embedded Course Level Assessment for Effective Assessment of Program Learning Outcomes

Walid Ibrahim, Amr Sweedan, Hazem Ibrahim, Sayed Marzouk, Wissam Ibrahim, Taoufik Zoubeidi

(F) Normative isomorphism: The patterns of profession of academics at Turkish higher education

Inci Ozturk Erkokcak

(F) A Framework for Facilitating Acquisition and Improvement of Negotiation Skills by Business Students

Stephen J.J. Mcguire, Ellen A. Drost

(F) Co-created model of social innovation that promotes social impact in Vocational Training Institutions

Juan Ignacio Díaz, Gabriela Carrasco, Diego Ramírez, Waldo Soto, Alex Silva

(F) Relationships in teaching for critical thinking dispositions and skills

Susan K Walker, Samantha Leboeuf

### Session 1c. Assessment and Evaluation

Wednesday 15, 11:00 – 13:15. *Room 3 and Virtual room 3.* Chair: Marvi Remmik

(F) Comparing standard with high-ability groups at university: differences in GPA for equally able students and gender-differentials

Pilar Beneito Beneito, Óscar Vicente-Chirivella



(F) **Building Teacher Professional Judgement**

Rayanne Shakra

(S) **A review of tertiary formative assessment using digital technology in the past decade: what has been facilitated?**

Li Liang, James Tognolini, Graham Hendry, Lilia Mantai

(S) **Use of Assessment and Feedback Systems for Introductory Computer Programming Modules of Higher Education: A Comparative Study**

Jagadeeswaran Thangaraj, Monica Ward, Fiona O’Riordan

(S) **Build an Assessment Rubric of Student Creativity in Higher Education**

Weiping Xu, James Tognolini

(S) **Perception and confidence on weather forecasts among Spanish undergraduate students enrolled in different subjects related to physics**

Igor Gómez, Enric Valor, Sergio Molina, Raquel Niclòs, Vicente Caselles

(P) **Co-assessment and self-assessment as types of evaluation in an online and offline blended learning**

María-Del-Carmen Alarcón-Del-Amo, Elena Alarcón-Del-Amo

## Session 1d. Technology in Education (I)

Wednesday 15, 11:00 – 13:15. *Room 4 and Virtual room 4.* Chair: Dimitri Prandner

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(F) **Examination of online education experiences from stakeholder perspective – a Hungarian case study**

László Buics, Péter Földesi, Orsolya Putz, Zoltán Varjú, Zsolt Csaba Horváth, Boglárka B. Eisingerné

(F) **VisionARi: An online community-based augmented reality platform for immersive learning**

Jungjin Park, Ryu Fattah, Larry K.B. Li

(S) **Learning Analytics for Measuring Engagement and Academic Performance: A Case Study and Future Directions**

Michael Lang

(P) **Using data analysis to predict the students’ trend of choosing preferred data storage**

Georgi Nikolov Cholakov, Asya Georgieva Stoyanova-Doycheva

(P) **Analysis of explicitation evidence in technical translation**

Katrin Herget, Teresa Alegre

(S) **Assessing the impact of recorded lectures on learning effectiveness**

Jinhui Zhang, Poon Leung, Chong It Tan, Alan Xian

(P) **Digital skills of Valencian university students**

Daniel Lloret-Irles, Jose Vicente Segura-Heras, Antonio Miguel Nogués-Pedregal, Claudia Saumell-Castelló, Maria Akita-Udrea

## Session 2a. Innovative Learning Experiences (I)

Wednesday 15, 14:30 – 16:15. *Room 1* and *Virtual Room 1*. Chair: Jami Cotler

(F) Ethanol in class and at home: guided inquiry-based learning

Sérgio Paulo Jorge Rodrigues

(F) Teaching Data-Enabled Design: Student-led Data Collection in Design Education

Renee Noortman, Peter Lovei, Mathias Funk

(F) Do Active Learning Classrooms make for Active Teaching?

Bas Blom, Kirsten Van Den Bosch, Hans Beldhuis, Pauline Schreuder, Greetje Timmerman

(F) Increasing engagement and student participation in Higher Education: insights from the University of Pisa during COVID-19

Lukasz Szczygiel, Alessandro Iannella, Maria Simi

(S) The influence of COVID-19 pandemic on students' screen time, learning, lifestyle, and well-being

Juris Porozovs, Viktors Veliks, Aija Kļaviņa, Anna Zuša

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## Session 2b. Online and Hybrid Learning (I)

Wednesday 15, 14:30 – 16:15. *Room 2* and *Virtual Room 2*. Chair: Anja Pfennig

(F) Towards a framework for interdisciplinary collaborative online learning spaces

Carolina Lucia Van Den Berg, Belinda Verster

(F) The effects of students' perceived usefulness and trustworthiness of peer feedback on learning satisfaction in online learning environments

Nafiseh Taghizadeh Kerman, Seyyed Kazem Banihashem, Omid Noroozi, Harm J. A. Biemans

(S) Harnessing the potential of online learning in Italian Universities: form blended classes to MOOCs

Alexandra Chavarria Arnau, Cecilia Dal Bon

(S) Students' perceptions of gained and lost value: a case study of a summer school that had to suddenly move online

Alvaro Pina Stranger, German Varas, Gaele Mobuchon

(S) How to support cooperation in hybrid learning?

Anne Uukkivi, Oksana Labanova, Britt Petjärvi, Kati Nõuakas



## Session 2c. Organization of Higher Education

Wednesday 15, 14:30 – 16:15. *Room 3 and Virtual room 3.* Chair: Jagadeeswaran Thangaraj

(F) ECTS, workload, and quality of higher education

Jose Maria Rivadeneyra

(F) Do universities have a distinctive brand personality? The case of ECIU Universities

Ana Estima, Cristina Guimarães

(F) Behind higher education decisions: Estonian students' take on choosing higher education institute and speciality

Helen Urmann, Marvi Remmik, Ene Tubelt

(F) Improving governance of vocational teacher education in Ukraine within Erasmus+ Project

Oksana Melnyk

(P) Values Education and Teaching Zest for Life: Japanese Experience and New Ukrainian School Reform

Svitlana Anatoliivna Kuzmina, Olga Vasylivna Matvienko, Valeriia Vasylivna Kudina

(S) Modifications and Accommodations for Higher Education Students with Special Educational Needs

Lenka Sokolová, Miroslava Lemešová, Marian Groma

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## Session 2d. Economics and Social Sciences Education

Wednesday 15, 14:30 – 16:15. *Room 4 and Virtual room 4.* Chair: Pilar Beneito

(F) Enhancing learning in the Finance classroom

Pilar Corredor, Isabel Abinzano, Cristina Del Rio, Elena Ferrer, Ana Gonzalez, Jose Manuel Mansilla, Beatriz Martinez, Luis Muga

(F) Universities' Attractiveness and Grading Policies: A Spatial Competition Model

Gabriele Lombardi, Eugenio Vicario

(F) Rebuilding our Toolkits for the future – How social science research educators changed their teaching in 2020 and 2021 to be fit for a digital future

Dimitri Prandner, Katrin Hasengruber

(F) Covid-19 pandemic, school closures and perception of the importance of education in the country

Cristina Vilaplana-Prieto

(P) The International System and the Transformation of Democracy in the 21st Century: Reflecting on a Virtual Exchange Module between Italy and the United States during COVID

Kimber M Quinney, Alessandro Quarenghi

## Session 3a. Sustainability and Engineering

Wednesday 15, 16:45 – 18:15. *Room 1 and Virtual Room 1.* Chair: Juris Porozovs

(F) Core Competences in Agri-food Sustainability: Student Self-Assessment After Online Action-Learning

Katherine M Flynn, Christoph F Knöbl, Line Lindner

(F) Development of Sustainability Competencies in a Higher Education Semester Program on Smart Sustainable Cities

Rien Van Stigt, Martijn Rietbergen

(F) Flipped classroom – a solution to teach the unloved iron carbon phase diagram in first year engineering during the Covid-19 pandemic

Anja Pfennig

(S) From project-based to problem-based learning in engineering disciplines: enhancing Cartography and Geomatics education

Georg Gartner, Andrea Binn, Jelena Gabela, Günther Retscher, Vassilis Gikas, Manuela Schmidt, Wangshu Wang

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## Session 3b. Entrepreneurship and Employment

Wednesday 15, 16:45 – 18:15. *Room 2 and Virtual Room 2.* Chair: Anne Uukkivi

(F) A Quality 4.0 Assurance Framework for the Higher Education Institutes

Muhammad Wasif, Sarosh Hashmat Lodi, Asif Ahmed Shaikh, Muhammad Tufail, Faaz Ahmed Butt

(F) Willingness to Enhance Employability

Eszter Kiss, Jami Cotler, Eben Afrifa-Yamoah

(F) Survive to stay connected: patterns of user experiences in a Life Long Learning digital platform

Marta Cannistrà, Mara Soncin, Federico Frattini

(S) Design-Based Learning and Student Entrepreneurship: How Learning Design Supports Non-Design Students' Aspirations

Loyal Shuman



## Session 3c. Competency Development

Wednesday 15, 16:45 – 18:15. *Room 3 and Virtual room 3*. Chair: Jose Manuel Mansilla

(F) **Fostering Key Competencies for Sustainability: Development of a Higher Education Teaching Format based on Service Design**

Silke Bustamante, Martina Martinovic, Thomas Afflerbach

(F) **Transform the learning journey in behavioral competency development programs to attain sustainable personal change**

Sara Bonesso, Laura Cortellazzo, Fabrizio Gerli

(P) **Let Others Shine: Key Competencies in European Research Infrastructures and Core Facilities**

Dimitri Prandner, Philip Caspar Sinner

(S) **Critical Thinking in Information Literacy Pedagogical Strategies: new dynamics for Higher Education throughout librarians' visión**

Tatiana Sanches, Carlos Lopes, Maria Luz Antunes

## Session 3d. STEM Education (I)

Wednesday 15, 16:45 – 18:15. *Room 4 and Virtual room 4*. Chair: Domenico Brunetto

(F) **Structuring knowledge as a strategy and tool for learning and evaluation in engineering education**

Jack Fernando Bravo-Torres, María Dolores Fernández-Pérez, Cinthya María Cevallos-Ludeña, Esteban Fernando Ordoñez-Morales, Wilson Daniel Bravo-Torres

(P) **Contextualization courses for engineering students based on sociotechnical thinking**

Jorge Rojas-Alvarez, Javier Jiménez Becerra, Mónica Bustamante Salamanca

(S) **Use of engineering cases as alternative assessments in material characterization course**

Hong Tao

(S) **Practical approaches to delivering pandemic impacted laboratory teaching**

Nigel James Francis, David P. Smith, Ian J. Turner

## THURSDAY 16

### Session 4a. STEM Education (II)

Thursday 16, 9:00 – 10:30. *Room 1 and Virtual Room 1.* Chair: Barbara Bruno

(F) High school mathematics knowledge level of technical university students  
Lukáš Pospíšil, Dagmar Dlouhá, Karolina Dlouhá

(F) Mathematics' war – real or imaginary?  
Janine Esther Hechter

(S) OPS4Math project – Optimization and Problem Solving for Teaching of Mathematics: teaching strategy, organization and objectives  
Claudio Sterle, Maurizio Boccia, Adriano Masone, Angela Orabona, Antonio Sforza

(S) Development of a Muon detector for educational purposes  
Riccardo Nicolaidis, Roberto Iuppa, Francesco Nozzoli, Leonardo Ricci

### Session 4b. Technology in Education (II)

Thursday 16, 9:00 – 10:30. *Room 2 and Virtual Room 2.* Chair: Ayesha Sadaf

(F) Enhancing student engagement in reflecting on professional skills development using digital tools for data collection and distribution  
Klaas Jan Huizing

(F) Comparing online and on-campus students' perceptions of the digitalization of higher education institutions  
Henning Brink, Sven Packmohr

(S) EXITrun – A Lecture as a Virtual Educational Escape Game  
Martin R. Wolf, Klemens Köhler

(S) Using Augmented Reality to improved understanding of the Carbon cycle  
Carme Huguet, Jillian Pearse, Álvaro Lozano-Tarazona

(S) CAPuS e-learning platform for the Conservation of Art in Public Spaces  
Tina Lasala, Floriana Vindigni, Dominique Scalarone, Monica Gulmini, Paola Croveri, Chiara Ricci, Arianna Scarcella

### Session 4c. Arts and Design

Thursday 16, 9:00 – 10:30. *Room 3 and Virtual room 3.* Chair: Christina Panayi

(F) Anti-Disciplinary Works, Speculative Words. A Teaching Experience of Communication Design Based on Tinkering and Speculation  
Francesco E. Guida, Claudia Tranti

(F) A Jewelry-Tech Experience: Teaching and Learning Model for Academic Training  
Livia Tenuta, Alba Cappellieri, Susanna Testa, Beatrice Rossato



(P) Active Learning as a Pedagogical Method for Teaching CCS to Design Students: A Self-Reflective Report.

Artemis Alexiou

(S) Remote design thinking. Dynamics and perspectives of the transformation in the online didactics and Project

Roberto Bianchi, Marco Elia

(P) 'Face-to-Face vs. Distance Learning': analysis of the training of musicians during Covid-19

Liliya Zelimkhanovna Borodovskaya, Tatiana Leontieva, Ziliya Yavgildina, Cholpon Turumbaeva, Gani Baiulov

## Session 4d. Linguistics and Language Teaching (I)

Thursday 16, 9:00 – 10:30. *Room 4* and *Virtual room 4*. Chair: Laurenz Volkmann

(F) An Analysis of Conversational Volatility During Telecollaboration Sessions for Second Language Learning

Alan F. Smeaton, Aparajita Dey-Plissonneau, Hyowon Lee, Mingming Liu, Vyoma Patel, Michael Scribney

(F) 'Realia & Replica': In-class Museums and Emotional Archives

Anunciación Carrera De La Red

(F) French-Spanish service learning as a pedagogical tool: an overview of the MIGPRO Project

Luz Belenguer-Cortés

(P) Some Practical Insights on Teaching FL to Visually Impaired Students

Giorgia Pomaroli

(P) The Climate Crisis in Foreign Language/Environmental Literacy Education: A Binational Virtual Exchange

Laurenz Volkmann, Hedwig Fraunhofer

## Session 5a. STEM Education (III)

Thursday 16, 11:00 – 12:15. *Room 1* and *Virtual Room 1*. Chair: Janine Hechter

(F) Teaching creativity to undergraduate engineering students

Tim Dolmansley, Jevgenija Prisutova, Keith Tarnowski, Oscar Mascareñas Garza

(F) Teaching Open Science. What do FNS-Cloud Food Researchers Want to Know?

Katherine M Flynn, Luminita Ciolacu, Annette Fillery-Travis, Luis Mayor

(S) A Campus Huaka'i: Weaving Geological, Historical & Cultural Perspectives in Hawai'i

Barbara Cabezal Bruno, Diamond Tachera, Jennifer Engels, Scott K Rowland

## Session 5b. Educational Systems

Thursday 16, 11:00 – 12:15. *Room 2* and *Virtual Room 2*. Chair: Inci Ozturk Erkokac

(F) A Systematic Review of Strategies to Develop Students' Cognitive Presence in Online Courses

Ayesha Sadaf, Larisa Olesova

(S) External assessors' reports – do they provide valid and useful information?

Maria Cordina, Joseph M Cacciottolo

(S) A Critical Reflection Framework Developing Teachers' Growth Competence

Nevine Mahmoud Fayek El Souefi

(S) University contribution to developing generic competences and employment status after graduation: a mediated model

Ana Hernández Baeza, Inés Tomás Marco, Marija Davcheva, Vicente González-Romá

## Session 5c. Health Sciences Education (II)

Thursday 16, 11:00 – 12:15. *Room 3* and *Virtual room 3*. Chair: Kerri Keet

(F) Postgraduate Supervision Practices in low regulated University System in Côte d'Ivoire

Akuélé Radha Kondo, Kathrin Heitz-Tokpa, Bassirou Bonfoh, Francis Akindes

(S) Simulation as part of programmatic assessment to create an authentic learning experience

Sumaiya Adam, Jc Lubbe

(S) Use of Course-based undergraduate research experiences model to enhance research interest of Hong Kong health professional undergraduate students

Yin Chun Mabel Yau, Tsz Shan Edith Cheung, Xiangyan Fiona Chen, Chi-Ming Wong

(S) Personal narratives about death and dying: a case study with nursing students

Carlos Laranjeira, Catarina Afonso, Ana Querido

## Session 5d. Architectural Education

Thursday 16, 11:00 – 12:15. *Room 4* and *Virtual room 4*. Chair: Francesco E. Guida

(F) Teaching practices in architectural technology courses. An experiment and future perspectives in the Italian context.

Francesca Giofre', Mohamed El Edeisy

(F) Architectural representation: the image and the sign

Gaia Leandri, Jackie Campbell, Susana Iñarra Abad, Francisco Juan Vidal

(F) Community-engaged design studios: learning through "live" projects

Christina Panayi, Nadia Charalambous



## Session 6a. Economics and Management Education

Thursday 16, 14:30 – 16:15. *Room 1* and *Virtual Room 1*. Chair: Martin R. Wolf

(F) Integrating the SDGs into econometrics teaching: An application of the education-research-sustainability learning approach

David Hoyos, Javier García-Enriquez, Pilar González, Susan Orbe, María Victoria Esteban, Cristina González, Agueda Madoz, Ainhoa Oguiza, Marta Regúlez, Jorge Virto, Ainhoa Zarraga, Marian Zubia

(F) Increasing Students' Felt Need for Teamwork: An Experiential Learning Exercise that Sets the Stage

Avan Rusi Jassawalla, Hemant Sashittal, Alan Witt

(S) The Agile Paradigm and Organisation Development in Higher Educational Institutions

David Louis Francis

(S) Reflections on a virtual reality soft skills teaching intervention

Tanya Hill, Hanneke Du Preez

(S) Professional Development Module in University: Building a sense of belonging for first-year students

Sylvia Dempsey, Ruth Vancelee

(S) Learning logistics from MOOCs: an ample teaching cacophony

Tarvo Niine, Miguel Córdova, Franca Cantoni, Merle Küttim

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## Session 6b. Computer Science

Thursday 16, 14:30 – 16:15. *Room 2* and *Virtual Room 2*. Chair: Marius Schönberger

(F) Dealing with Uncertainty – Experiencing Real Life in Class

Daniela Zehetmeier, Axel Böttcher

(F) Collaborative Design and Build Activity in a CS1 Course: A Practical Experience Report

Benoit Donnet, Géraldine Brieven, Laurent Leduc

(F) Supporting Developers in Creating Web Apps for Education via an App Development Framework

Juan Carlos Farah, Sandy Ingram, Denis Gillet

(S) Improving Learning Quality in CS Education during the COVID-19 Pandemic

Dieter Pawelczak, Antje Gieraths

(S) Challenges of Knowledge Component Modeling: A Software Engineering Case Study

Nikola Luburić, Balša Šarenac, Luka Dorić, Dragan Vidaković, Katarina-Glorija Grujić, Aleksandar Kovačević, Simona Prokić

## Session 6c. Online and Hybrid Learning (II)

Thursday 16, 14:30 – 16:15. *Room 3* and *Virtual room 3*. Chair: Torbjorn Bjorvatn

(F) Distance learning experiences at the University of Guadalajara, Mexico. Towards a hybrid model

Patricia Gutierrez Moreno, Diana Lizette Becerra Peña, Sandra Berenice Cabrera Reynoso

(F) From face-to-face environments to distance learning universities: the transition period of first-year students

Felipe Maciel Tessarolo, Maria Aristeidou, Emily Coughlan

(S) Development of Ontologies in Different Domains for a Test Generation Environment

Asya Georgieva Stoyanova-Doycheva, Sebiha Madanska, Mariya Grancharova, Todorka Glushkova, Georgi Cholakov

(S) Open Educational Resources for Social Science Research Methods – A Case Study from the D-A-CH-Region

Dimitri Prandner

(P) A case study of hybrid learning in higher education using quantitative research design

Angela Daniela La Rosa, Anna Mavroudi

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## Session 6d. Entrepreneurship and Employment

Thursday 16, 14:30 – 16:15. *Room 4* and *Virtual room 4*. Chair: Hyowon Lee

(F) Employers' perception of the role of higher education in Portugal: The varying solutions for skill problems

Abdul Suleman, Fátima Suleman

(F) The Science of Complex Systems for Preparing the New Generation to Tackle Global Challenges.

Pier Luigi Gentili, Gianluigi Cardinali, Piero Dominici, David Grohmann, Maria Elena Menconi, Claudio Santi

(F) Student approaches to learning and entrepreneurial intentions

María-José Pinillos, Javier Roldán

(P) Comparing Online and Physical Social Entrepreneurship Training: Lessons Learned moving Online

Robert Phillips

(S) First Generation College Students with Disabilities Attending a Four-year College: How Did They Get There

Sydney A Bueno



## Poster Session

Thursday 16, 16:15 – 16:45. *Faculty Hall*

(P) **Team Formation and Project Assignment – the dilemma of assigning students to project groups**

Anja Pfennig, Juliane Siegeris

(P) **An art-based approach to teaching English language speaking skills**

Saleh Al-Busaidi, Mohammed Al-Amri, Wafa Al-Dhuhli

(P) **Combining subject-specific and subject-independent competencies in teaching Linguistics**

Ilona Tragel, Liisa-Maria Komissarov

(P) **Integrating virtual simulation (MyDispense) for teaching Pharmacy curriculum**

Betty Exintaris, Nilushi Karunaratne, Annie Chen, Rita Wardan, Sara Chuang, Vivienne Mak

(P) **Adapted model of flipped classroom in Veterinary Medical Pathology teaching: students' perception**

Jose Ramiro Gonzalez González-Montaña, Angel Javier Alonso- Diez, Juan Carlos Domínguez, Felipe Martínez-Pastor, Marta Elena Alonso De La Verga

(P) **Rethinking Hybrid Teaching: The Hybrid Rhombus Model as an Approach to Understanding Hybrid Settings**

Daniel Handle-Pfeiffer, Christoph Winter, Christian Löw, Claudia Hackl

(P) **A case of an assessment module in Distance Education at the Univ. of Pretoria**

Maryke Anneke Mihai

(P) **Empathic Communication Skill Training in Medical Education**

Judit Szalai-Szolcsányi

(P) **A Quality Framework for HE Micro-Credentials**

Paul O'Leary, Zeta Dooley, Ken Mccarthy

## Session 7a. Humanities and Languages

Thursday 16, 16:45 – 18:15. *Room 1* and *Virtual Room 1*. Chair: Susan Walker

(F) Tandem.MINT – Taking advantage of the pandemic

Julia Salzinger, Laura-Katharina Schiffmann, Ute Berbuir, Sulamith Frerich

(S) Validation of a High-Stakes Test: GA IESOL Listening Unit

Snezana Mitrovic, Emanuela Botta, Giusi Castellana

(S) Service-Learning Courses as the Way to Promote Gender Equality and Inclusion in the Higher Education

Natalia Anatolyevna Starostina

(S) SPOC and flexible language learning with Moodle: the experience at the University for Foreigners of Perugia

Talia Sbardella, Valentino Santucci, Stefania Spina

(S) Pedagogy and new humanism at the time of Covid

Anna Tataranni

## Session 7b. Technology in Education (III)

Thursday 16, 16:45 – 18:15. *Room 2* and *Virtual Room 2*. Chair: Dieter Pawelczak

(F) An AI-based lesson planning software to support competence-based learning

Marius Schönberger, Hanna-Liisa Pender, Lennart Bohl, Julia Knopf

(F) When technology meets educational sciences: Combining virtual reality and microteaching to train pre-service teachers' kindergarten classroom management strategies.

Jolien Mouw, Marjon Fokkens-Bruinsma

(S) Reflecting on a learning ecology approach to consider contexts in which students can develop digital competences for the workplace

Suzanne Stone, Rob Lowney

(F) The Digital Museum: Learning through Interaction and Reflection

Toine Minnaert, Anastasia Hacopian

## Session 7c. Mobility and Out of Class Learning

Thursday 16, 16:45 – 18:15. *Room 3* and *Virtual room 3*. Chair: Fatima Suleman

(F) Assessment criteria for work-integrated learning in a generalist postgraduate university programme

Torbjorn Bjorvatn

(S) The academic mobility in pandemic times: the impact on Sapienza University of Rome students' lives

Gabriella D'Ambrosio

(S) Assessment of Institutional Readiness for Online Learning

Lorena D. Mathien



(S) **Belonging in distance learning: The impact of interaction during the COVID-19 pandemic**

Agnes Mainka, Jonas Kötter, Natallia Kukharenka, Michael Brinkmeier

(P) **Hands-on learning at a world-class telescope**

Elisabeta Lusso, Lapo Casetti, Maurizio Pancrazzi, Marco Romoli

## **Session 7d. Health Sciences Education (III)**

Thursday 16, 16:45 – 18:15. *Room 4 and Virtual room 4.* Chair: Sumaiya Adam

(F) **Social Innovation in Health**

Juan Ignacio Dfaz, Victor Meza, Catalina Mora, Isabella Montero, Pablo Chiuminatto, Arturo Grau, Gabriela Carrasco, Waldo Soto

(F) **Learning of Pharmacogenetics in human medicine students through PBL and ICTs**

Carlos Heber Contreras Pizarro, Maritza Dorila Placencia Medina, Javier Silva Valencia, Carlos Garcia Bustamante, Julian Anibal Villarreal Valerio, Rosa Pando Álvarez, Michan Malca Casavilca

(S) **Teaching and learning anatomy online in South Africa during the COVID-19 pandemic**

Kerri Keet, Robyn Lunn-Collier, Kerry-Anne Mac Dermott, Jodie I Layman-Lemphane

(P) **Education models used across Europe to train Therapeutic Radiographers/ Radiotherapists: a cross-case study**

J Guilherme Couto, Sonyia Mcfadden, Patricia McClure, Paul Bezzina, Ciara Hughes

(P) **Public Health Film Presentation Experience in Medical School**

Antoni Alegre-Martínez, María Isabel Martínez-Martínez, José Luis Alfonso-Sánchez

## FRIDAY 17

### Session 8c. Innovative Learning Experiences (II)

Friday 17, 9:00 – 10:30. *Virtual room 3*. Chair: David Easdown

(F) Game-based learning to promote student engagement: an escape room on databases

Vicente Cerverón-Lleó, Esther De Ves Cuenca

(F) Developing a Game Production Pipeline for University Educators

Ylva Grufstedt, Tomi Kauppinen, Annakaisa Kultima

(P) Immersive Learning as a Pedagogical Method in Higher Education

Margaret Mangion, Franco Curmi

(P) Cultivating gender inclusive leadership in higher education: Insights from a laboratory learning experience

Sara Bonesso

(P) Marine Spatial Planning and Integrated Coastal Management as drivers for a more international, interdisciplinary and interactive approach to higher education

Tanja Behrendt, Malena Ripken, Thomas Klenke

(P) Distance technologies in the context of personalization of competence training of bachelors of art and pedagogical direction

Liliya Zelimkhanovna Borodovskaya, Anastasia Mishina, Ziliya Yavgildina, Nadejda Mishina, Liliya Malakhova

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### Session 8d. Linguistics and Language Teaching (II)

Friday 17, 9:00 – 10:30. *Virtual room 4*. Chair: Giorgia Pomarolli

(F) Empowering effective language learners: An innovative course addressing language learning challenges in one Australian university

Susana A. Eisenchlas, Kelly Shoecraft

(F) Effective techniques to language training of foreign students in Russian universities

Guyzel Zakirova, Tatyana Marsheva

(F) Negotiation of Form and Its Effects in NS-NNSs Conversational Interaction

Hongwu Zhang

(S) Innovation linked with SDGs: Citizen Science projects to foster competencies for participation in the Digital Society

Rosana Villares, Oana Maria Carciu

(S) Making international mobility student-friendly: a linguistically embedded assessment of higher education internationalisation strategies

Loredana Bercuci, Oana-Roxana Ivan, Madalina Chitez, Roxana Rogobete, Andreea Dinca



## Session 9c. STEM Education (IV)

Friday 17, 11:00 – 12:15. *Virtual room 3*. Chair: Tanja Behrendt

(F) **BYOD as a gamification tool for improving learning of an experimental subject in Chemistry Degree**

Ana María Ares, Laura Toribio, José Luis Nieto, Adrián De La Fuente, José Bernal

(F) **Using error analysis sheets to improve learning in higher education**

Maria Isabel Núñez-Peña, Roser Bono

(S) **Reaching out through the MOOC Introduction to Calculus**

David Easdown

(P) **Online team working with emerging technologies in a university math class**

Domenico Brunetto, Nicolò Cangiotti

## Session 9d. Business and Management Education

Friday 17, 11:00 – 12:15. *Virtual room 4*. Chair: Robert Phillips

(F) **Team-Teaching in a Matrix Style: Addressing wicked-problems of MNEs in the context of sustainability**

Tine Lehmann, Julia Schwarzkopf

(S) **Business programme dropout causes and the ceiling of retention**

Elo Lember, Tarvo Niine, Merle Küttim

(P) **Innovative Teaching and Learning Practices: The Student Perspective**

Clare Kearney, Rosemarie Kelly

(P) **Geopolitics and business: the implications for management education**

Simon Sweeney, Simon Mollan

(P) **A European perspective on the internationalisation strategies and accreditation of Business Schools**

Elena Borsetto, Chiara Saccon

## SOCIAL PROGRAM

### Wednesday 15, 19:30 - 20:30



Welcome Cocktail Reception at The Westin Valencia  
Address: Carrer Amadeu de Savoia, 16, València.

Dress code: Smart Casual.



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### Thursday 16, 21:00 - 24:00



Conference Dinner at Terrace Lounge of Restaurant Contrapunto Les  
Arts in the Opera House  
Address: Palau de les Arts Reina Sofia, Av. Professor López Piñero 1

Dress code: Smart Casual.





# ADDITIONAL INFORMATION

Lunch will be served on Wednesday and Thursday from 13:15 to 14:30 at “Cafetería El Trinquet” (Building 9D), located behind the Faculty of Business and Management.

Coffee breaks are served at the Faculty Hall on Wednesday and Thursday:

- Morning 10:30 - 11:00
- Afternoon 16:15 - 16:45 (on Thursday, during the Poster Session)

Free WIFI access is provided for delegates at the conference .

No on site activity is scheduled on Friday 17. All sessions will be online.



**Building 9D**  
Cafeteria El Trinquet

## Building 7I

Faculty of Business Administration and Management  
Conference Hall: Salón de actos. 2nd floor  
Faculty Hall: Main entrance. Ground floor  
Rooms: Aula 0.1, Aula 0.2, Aula 0.3, Aula 0.4



8<sup>th</sup> International Conference  
on Higher Education Advances

PROCEEDINGS



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