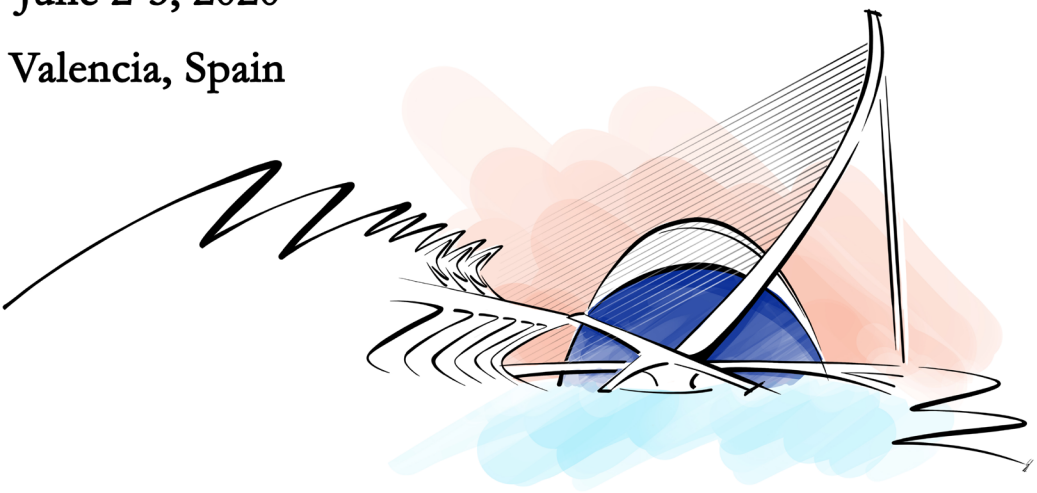
UNIVERSITAT POLITÈCNICA DE VALÈNCIA

HEAd '20

6th International Conference on Higher Education Advances

June 2-5, 2020

Valencia, Spain



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PREFACE

Josep Domenech

Welcome to the Sixth International Conference on Higher Education Advances (HEAd'20) hosted virtually by the Universitat Politècnica de València, Spain during 2-5 June 2020. Despite the COVID-19 outbreak, this Sixth edition consolidates 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 educational systems.

The selection of the scientific program was directed by Paloma Merello, who led a team of 229 program committee members representing 50 countries in all five continents. Following the call for papers, the conference received 280 full paper submissions from 47 different countries. All the submitted papers were reviewed by at least two program committee members under a double-blind review process. Finally, 121 papers were accepted as full papers for oral presentation during regular sessions. Additionally, 42 submissions were accepted for presentation in the innovative non-linear sessions, which allow for increased interaction and participation. The program committee chair congratulates all the authors for having their papers accepted in the proceedings of such a competitive conference.

HEAd'20 also features two keynote speakers that overview important and actual topics: Dr. César Ortega-Sánchez (Curtin University, Australia) talks about understanding students' needs in the age of the Internet, relating this to the change in the learning process due to the mobility restrictions approved after the coronavirus outbreak.

The second keynote speech is delivered by Dr. Janet Lord (Manchester Metropolitan University, United Kingdom) dealing with the transformative leadership for equity, social justice and change in higher education.

This year, the second PHELC workshop is celebrated virtually together with HEAd'20.
The symposium, led by Ann Marie Farrell and Anna Logan, focuses on giving insights into assessing large classes in higher education.

The organizing committee would like to thank all those who made this year's HEAd a great success. Specifically, thanks are indebted to the invited speakers, authors, program committee members, reviewers, session chairs, presenters, sponsors, supporters and all the attendees.

Our 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 2020
Josep Domènech

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Roza Zhussupova, Eurasian National University, Russia
Ana Zorio-Grima, Universitat de Valencia, Spain

WEDNESDAY 3rd 9:30 - 10:40

Plenary Room

UNDERSTANDING STUDENTS' NEEDS IN THE AGE OF THE INTERNET

Cesar Ortega-Sanchez
Curtin University

Associate Professor Cesar Ortega-Sanchez is a Computer Systems Engineer from the Metropolitan Autonomous University in Mexico City. He obtained the degree of Master of Science in Digital Systems from Brunel University in London, and the degree of Doctor of Philosophy in Electronics from the University of York. He joined Curtin University in 2005 as Senior Lecturer of the Electrical and Computer Engineering Department where he taught courses in digital design and embedded systems. In recent years he has taken leading roles in teaching and learning at School and Faculty levels.

He is currently Academic Lead of the Engineering Foundation Year, the common first year of engineering serving 800+ student engineers every year.

He has supervised over 100 undergraduate and postgraduate theses and has published over 60 papers on Electronics and Engineering Education.

His research interests are in embedded systems, bio-inspired architectures, intelligent systems and engineering education.

He is a consultant in curriculum design, capstone projects, and first year experience. In 2015 he won a national citation from the Australian Office of Learning and Teaching for his outstanding work facilitating activities to improve students' employability skills.

THURSDAY 4th 14:45 - 15:45

Plenary Room

TRANSFORMATIVE LEADERSHIP FOR EQUITY, SOCIAL JUSTICE AND CHANGE IN HE

Janet Lord
Manchester Metropolitan University

Janet Lord is Head of Education for the faculty of Education at Manchester Metropolitan University, UK. Janet has worked as a social sciences teacher and a lecturer in higher education for many years, specialising in education studies, teacher education and the social sciences.

She has a doctorate in education from the University of Manchester; her thesis concerned the development of identity in teachers. She also has experience in school governance and educational consultancy.

Janet's research and writing concerns pedagogy, leadership, school funding, student experience and the nature of critical spaces in education.

BRIEF PROGRAM

(CEST)	Wednesday 3rd	Thursday 4th	Friday 5th	(AEST)	(EST)
9:00-10:40	Opening Keynote I Cesar Ortega-Sanchez	4a. Innovative learning experiences II 4b. Assessment and evaluation I 4c. Interactive tools in classroom 4d. Mobility and out of class learning	8a. Competency-based learning 8b. Innovative tools for teaching II 8c. Entrepreneurship and employment 8d. Innovative learning experiences IV	17:00-18:40	3:00-4:40
10:40-11:15	Coffee break			18:40-19:15	4:40-5:15
11:15-12:15	1a. Education accreditation and quality 1b. Teacher education I 1c. Technology in education I 1d. Student competencies and skills	5. Non-linear session II	9. Non-linear session III	19:15-20:15	5:15-6:15
12:15-13:15		6a. Assessment and evaluation II 6b. STEM education 6c. Technology in education III 6d. Learning and educational models I	10a. Student attitudes 10b. Internationalization 10c. Strategies and experiences in HE	20:15-21:15	6:15-7:15
13:15-14:45	Lunch break			21:15-22:45	7:15-8:45
14:45-15:45	2a. Innovative tools for teaching I 2b. Technology in education II 2c. Innovative learning experiences I 2d. Humanities Education	Keynote II Janet Lord	11a. Learning and educational models II 11b. Organizational aspects 11c. E-learning	22:45-23:45	8:45-9:45
15:45-16:30	Coffee break		Closing	23:45-0:30	9:45-10:30
16:30-18:00	3. Non-linear session I	7a. Assessment and evaluation III 7b. Innovative learning experiences III 7c. Teacher education II 7d. Policies on Higher Education		0:30-2:00	10:30-12:00

WEDNESDAY 3rd

REGULAR SESSIONS: SESSION 1 AND 2

Papers in regular sessions: 15 min presentation plus 5 min Q&A

NON-LINEAR-SESSION: SESSION 3

Papers in non-linear session: iterative 5 min presentations plus Q&A

Session 1a. Education accreditation and quality

Wednesday 3, 11:15 – 13:15 **Virtual room 1**

Chair: Humberto Manuel Oraison

International attractiveness of undergraduate and postgraduate studies: is scientific production a determining factor?
Ana Blanco Mendialdua, Virginia Rincón-Díez, Jon Barrutia-Güenaga

A Systematic Assessment Framework for Higher-Education Institutions
Munikrishnappa Anilkumar, Chetan Singai, Arkalgud Ramaprasad

Evaluation and Accreditation System of External Internship Tutors – SEATPE
Yolanda Montoro Sánchez, María Adela Valero Aleixandre, Alfredo Pérez Boullosa, Miguel Ángel Barberá Gregori, María Ridocci Quiles

Curriculum development in South Africa: the role of professional bodies
Musimuni Dowelani, Faith Dowelani

Reforming Higher Education in India: In Pursuit of Excellence
Chetan Singai, T R Kumaraswamy, Ajay Chandra

Development of an Academic Risk Model to support Higher Education Quality Assurance
Paul O'Leary, T.J. Mcdonald, Derek O'Byrne, Chris O'Riordan

Session 1b. Teacher education I

Wednesday 3, 11:15 – 13:15 **Virtual room 2**
Chair: Yonca Toker

Coercive isomorphism in higher education: Direct pressures from the state to the Turkish universities
Inci Ozturk

Methodology based on collaborative problem solving implemented in a high academic achievement group
Miguel Ferrando-Rocher, Stephan Marini, Juan José Galiana-Merino, Jesús Carbajo

A decade of TeachMeet: an Interpretive Phenomenological Analysis of participants' tales of impact
Mags Amond, Keith Johnston, Richard Millwood, Ewan Mcintosh

The faculty development model of University of Milan-Bicocca: towards an integration of general and disciplinary didactics
Franco Passalacqua, Elisabetta Nigris

How to Motivate Students in Large-enrollment Courses for Active-learning
Radka High, Karolina Duschinska

Session 1c. Technology in education I

Wednesday 3, 11:15 – 13:15 **Virtual room 3**
Chair: Kim Bryceson

A transversal methodology for the implementation of virtual reality in Architecture learning
Carlos Rosa-Jimenez, Ferrán Ventura-Blanch

Blended Support of Undergraduate Interdisciplinary Research
Rianne Van Lambalgen

Augmented reality to aid retention in an African university of technology engineering program
Nicolaas Johannes Luwes, Leanri Van Heerden

The digitalization of universities from a students' perspective
Henning Brink, Sven Packmohr, Kristin Vogelsang

Helping tomorrow's social professionals to learn about social robotics
Perry Share, John Pender

Applying Test-driven Development in Evaluating Student Projects
Cuong Huy Tran, Dragos Truscan, Tanwir Ahmad

Session 1d. Student competencies and skills

Wednesday 3, 11:15 – 13:15 **Virtual room 4**
Chair: José S. Torrecilla

Effectiveness of delivery methods in the transfer of soft skills
Monique Keevy

Students' experiences with learning mergers and acquisition skills in a multi-disciplinary learning community
Miriam Ossevoort, Daan Tavenier, Jan Riezebos

Creativity and Innovation Skills in University STEM Education: The CHET Project Approach
César García-Aranda, Agustin Molina-García, María Del Carmen Morillo Balsera, Sandra Martínez-Cuevas, Encarnación Rodríguez Hurtado, Javier Pérez Rodríguez, Jorge Rodríguez- Chueca, Yago Torroja Fungairiño, Manuel Rodríguez Hernández, María González Miquel, Francisco Ismael Díaz Moreno, Emilio José González Gómez, María Del Mar De La Fuente García-So

Sustainable Practices in research-integrated Education in HE: towards an accepted Development Pedagogy
Erika Corradini

Do text discussions improve the academic skills of students of HE? Andorra University case
Helena Prieto Sanz

Integrated disciplines and future competencies: A blueprint for ethically aligned curriculum for IT, CS, ITC & beyond
Alexander V. Libin

Session 2a. Innovative tools for teaching I

Wednesday 3, 14:45 – 15:45 **Virtual room 1**
Chair: Mairéad Hogan

Disruptive Pedagogy: Guerrilla Tactics in Large Classes
Viola Manokore, Doug Mcrae

Adoption of evidenced-based teaching strategies in STEM and non-STEM courses after a common faculty development experience
Susan Carson, Jennifer Stanigar

Developing Effective Instructional Skills: The Master Educator Program at SUNY Buffalo State
Lorena D. Mathien

Session 2b. Technology in education II

Wednesday 3, 14:45 – 15:45 **Virtual room 2**
Chair: Gareth Bramley

International Collaboration on a Sustainable Forestry Management OER Online Program – A Case Study
Min Qian (Michelle) Zeng, Hailan Chen, Anil Shrestha, Chris Crowley, Emma Ng, Guangyu Wang

Critical Thinking on Technology Use: Higher Education Course Design to Promote Personal, Professional and Societal Change
Susan K Walker, Rebecca Leaf Brown

Self-Contained Jupyter Notebook Labs Promote Scalable Signal Processing Education
Dominic Carrano, Ilya Chugunov, Jonathan Lee, Babak Ayazifar

Session 2c. Innovative learning experiences I

Wednesday 3, 14:45 – 15:45 **Virtual room 3**
Chair: Marnel Mouton

U-Behavior: Visual-Form Learning Analytics to Enhance Teaching and Learning
Kelly Mckenna, James Folkestad, Marcia Moraes

Lessons learnt – The role of peer-to-peer lecture films in a first year material science laboratory course
Anja Pfennig

Building a Student Success Model at GMIT: student centred learning opportunities, employability and the professional development of teaching
Carina Ginty, Bridie Killoran, Annette Cosgrove, Duffy Jessica

Session 2d. Humanities Education

Wednesday 3, 14:45 – 15:45 **Virtual room 4**
Chair: Dieter Pawelczak

Design for Cultural Heritage at the University of Ferrara
Marina Contarini, Anna Bernabè, Marco Manfra, Davide Turrini

The Lecture-Performance: Implementing Performative Pedagogy in Literature Class
Ana Gimenez Calpe

Enhancing the practice of feedback through arts: an integrated open strategy
Daniela Casiraghi, Bianca Santolini

WEDNESDAY 3rd

Session 3. Non-linear session I

Wednesday 3, 16:30 – 18:00 **Virtual rooms: from 1 to 15**

(VR1) Practicing 21st Century Skills in the Classroom
Meghan Perdue

(VR2) Shared learning between health sciences university students. Teaching-learning process of hand hygiene
Montserrat Sánchez-Lorente, Enrique Sanchis-Sánchez, Ángela Olmedo-Salas, Nicole Victoria Zurita-Round, Pablo García-Molina, Evelyn Balaguer-López, José María Blasco-Igual

(VR3) Don't feedback in anger: enhacing student experience of feedback
Gareth Bramley, Kate Campbell-Pilling, Carl Simmons

(VR4) Interactive Classroom Methods for Science classes
Izan Catalán Gallach, Rodolfo Viveros Contreras, Juan Pedro Catalán Catalán, María José Gallach Vela

(VR5) The Digital Learning Laboratory Model to Catalyze Change in University Teaching and Learning
Jessica Sandland, Mary Ellen Wiltrout

(VR6) Effects of course coordination and part-time precalculus instructor support on student academic performance
Amir H. Golnabi, Eileen Murray, Haiyan Su

(VR7) Virtual Technologies possibilities for improving background knowledge of Civil Engineering Education
Olga Ovtšarenko, Daiva Makuteniene, Edgaras Timinskas

(VR8) A concept of a mainly digitalized course on control theory including problembased practical units and digital supported exams
Birgit Rösel

(VR9) Correlation between students' workload and attendance as related towards final grades: A case of study on Statistics for first-year Engineering students
Carlos De La Calle-Arroyo, Licesio Rodríguez-Aragón

(VR10) Design of a gamified tool for the development of citizenship competencies
Maira Camila Paba Medina, Julieth Katherin Acosta Medina, Martha Liliana Torres Barreto

(VR11) Beyond Degree Programs: How a Major University Immersed Itself in the Educational Landscape of New York City
Anita Vazquez Batisti, Michael E Pizzingrillo

(VR12) ICT and Accounting Education. An innovative teaching method: the Practice Enterprise
Daniele Gualdi

(VR13) Design and Evaluation of Gamification Experiences in Computer Science Studies
Inmaculada Rodríguez, Maria Salamó, Anna Puig

(VR14) Exploring the use of Plickers for conducting assessments in higher education
Moretlo Tlale-Mkhize

(VR15) Dropout and Engineering undergraduate programs at the Universidad Nacional de Colombia between 2012-2019
Mónica Natalí Sánchez-Nítola, Diana Grijalba, Manuel Embus, Andrés Suarez, Juan Esteban Guevara Montoya

THURSDAY 4th

REGULAR SESSIONS: SESSION 4, 6 AND 7

Papers in regular sessions: 15 min presentation plus 5 min Q&A

NON-LINEAR-SESSION: SESSION 5

Papers in non-linear session: iterative 5 min presentations plus Q&A

Session 4a. Innovative learning experiences II

Thursday 4, 9:00 – 10:40 **Virtual room 1**

Chair: Inmaculada Rodríguez

Occupational safety and health education and training: an innovative format and experience
Emma Pietrafesa, Sergio Iavicoli, Agnese Martini, Rosalba Simeone, Antonella Polimeni

Challenges in Higher Education Teaching Collaborations – a CAGE distance framework analysis
Tine Lehmann, Veit Wohlgemuth, Annette Ammeraal

Experiential and Integrated Learning Environments – Teaching Urban Design Studio at Curtin University
Francesco Maria Mancini, Tanja Glusac

Peer actions for a service learning project to prevent drug-facilitated sexual assaults
Gemma Montalvo, Gloria Quintanilla, Fernando E. Ortega-Ojeda, Carmen García-Ruiz, Pablo Prego-Meleiro, Carmen Figueroa Navarro, Begoña Bravo-Serrano, María Ruth García-Pernía, Felix Zapata, María José González-Muñoz, Carmen J. Mateos-Vega

Innovation2: Innovative Course on Innovation Takes on the Lebanese Revolution
Marina Apaydin, Christopher Bouri

Session 4b. Assessment and evaluation I

Thursday 4, 9:00 – 10:40 **Virtual room 2**
Chair: Eleonora Mattarelli

Transnational Higher Education and International Branch Campuses in the Gulf Cooperation Council Countries: The Case of the United Arab Emirates
Robert Michael Bridi

Educational System Assessment: Italy And Finland, Comparative Case Study
Eleonora Mattarelli, Cristiana De Santis

Improving vocational interest assessments: data complexity levels are important for social and enterprising areas
Yonca Toker, Aysu Gökalp, Yalçın Açıkgöz

"Because, as a teacher, giving feedback and assessment is actually really difficult": using self- and peer-assessment to develop Higher Education teachers' skills in assessment and feedback
Laura Costelloe, Arlene Egan

Marking Schemes for an Authentic Group Project, Trial by Statistics – A Case Study
Kim Bryceson

Session 4c. Interactive tools in classroom

Thursday 4, 9:00 – 10:40 **Virtual room 3**
Chair: Leanri Van Heerden

Flipped teaching and interactive tools. A multidisciplinary innovation experience in higher education
Jesús Sergio Artal-Sevil, Ana Felicitas Gargallo-Castel, Marta Sofía Valero-Gracia

"Post-it mapping": analogical disruption in the classroom
Guiomar Liste, Tamar Buil, Juan Delgado, Jose Vicente Pinar

Social entrepreneurship as a tool for promoting critical, paradoxical learning in the field of business organization and management: An experiment from the University of Zaragoza
Ignacio Bretos, Millán Díaz-Foncea, Clara Sarasa, Alla Kristina Lozenko, Carmen Marcuello

A pedagogic approach by contextual immersion
Samuel Ismael Billong Iv, Bernabé Batchakui, René Simo Nono, Georges Kouamou

Session 4d. Mobility and out of class learning

Thursday 4, 9:00 – 10:40 **Virtual room 4**
Chair: Anja Pfennig

Breaking down the classroom walls: how to train future media professionals in an interdisciplinary and applied way while fostering social change
Jorge Franganillo, Lydia Sánchez, M. Ángeles García Asensio, Anna Marquès

From Times Square to Eyre Square: Hackathons as Authentic Learning for Information Systems Students
Mairéad Hogan

Learning Outside the Classroom: A Distinctive Approach to Co-Curricular Recognition in the Australian context
Joe Fernando Chicharo, Kylie Austin, Julia Coyle, Amy Thompson

Service-learning by PhD students to aid socially neglected people
José S. Torrecilla, Santiaga Buitrón Ruiz, Manuel Sánchez, John C Cancilla, Sandra Pradana, Ana Maria Perez Calabuig

How to support mobility students to gain soft-competences: Knowledge, Skills and Attitudes
Eva M. De La Torre, Fernando Casani, Adriana Pérez Encinas, Jesús Rodríguez Pomeda

Session 5. Non-linear session II

Thursday 4, 11:15 – 12:15 **Virtual rooms: from 1 to 14**

(VR1) The use of EduBlog in initial teachers training: an experience of a teaching innovation project
Maria Isabel Pardo Baldoví, Diana Marín Suelves, María Isabel Vidal Esteve

(VR2) Baltic – Nordic Universities in the EU Research and Innovation Programme Horizon 2020
Dina Bērziņa

(VR3) Improving international student transition to professional employment
Dorothy Wardale

(VR4) The development of soft skills among students during a business game
Mikhail Vasilievich Vinichenko, Alexander Vasilievich Melnichuk, Sergey Anatolievish Makushkin

(VR5) Integrating STEMM in Higher Education: a proposed curriculum development framework
Lindsey Conner

(VR6) Transdisciplinary teaching and learning: an experiment
Antonella Giacosa

(VR7) Education technology based on a 3D model of house VirTec
Daiva Makuteniene, Olga Ovtšarenko, Elena Safiulina, Edgaras Timinskas

(VR8) Higher Education and Solidarity? The Integration of Refugee Students at Austrian Universities
Dimitri Prandner, Robert Moosbrugger

(VR9) Good-bye email, welcome Slack
Juan M. Lopez-Zafra, Ricardo A. Queralt, Sonia De Paz-Cobo

(VR10) The bad and the ugly: a systematic review of technology's negative impacts' mentions in literature from 2005 to 2020
Inês Tavares Silva, Luis Filipe Rodrigues, Marta Mello Sampayo

(VR11) hybrid Design based research for Agile Software development (hDAS) in ISD contexts: a discovery from studying how to design MUVEs for VET
Todd Cochrane

(VR12) The world of fractals
Peter Tasnádi, Peter Nagy

(VR13) Gamification in Online Educational Systems
Hazem Ibrahim, Walid Ibrahim

(VR14) Motivations and concerns of outgoing Erasmus students
Valeria Caviezel, Anna Maria Falzoni, Linda Galizzi

Session 6a. Assessment and evaluation II

Thursday 4, 12:15 – 13:15 **Virtual room 1**
Chair: Paul O'Leary

The Skills of University Students in Educational Settings Assessed by Company Tutors: A Longitudinal Study in Italy
Cristiana De Santis, Marta Cecalupo, Anna Salerni

Breaking down Silos through Authentic Assessment: a Live Case Analysis
Olivia Freeman, Rosie Hand, Aileen Kennedy

On strategies to improve student engagement
Maria Asunción García, Ana María Valle

Session 6b. STEM education

Thursday 4, 12:15 – 13:15. **Virtual room 2**
Chair: Rianne Van Lambalgen

Supporting deep understanding with emerging technologies in a STEM university math class
Domenico Brunetto, Clelia Marchionna, Elisabetta Repossi

Scientific Discourse: Can Our First-Year Students Express Themselves in Science?
Marnel Mouton, Ilse Rootman-Le Grange

Teaching Security in Introductory C-Programming Courses
Dieter Pawelczak

Session 6c. Technology in education III

Thursday 4, 12:15 – 13:15 **Virtual room 3**
Chair: Nicolaas Johannes Luwes

Factors affecting Cloud Computing adoption in Higher Learning Institutions in South Africa: Acase of Matjhabeng TVET Colleges
Dina Moloja, Ephias Ruhode

Effective integration of computational tools into Chemical Engineering studies at an international level
Moises Garcia-Morales, Claudia Roman, Miguel Angel Delgado, Francisco Lemos, Maria Amelia Lemos, Jorge Ramirez, Angela Danila

Impact of GUI personalization of a word processor on a learning activity course
Arnaud Zeller, Pascal Marquet

Session 6d. Learning and educational models I

Thursday 4, 12:15 – 13:15. **Virtual room 4**
Chair: Monique Keevy

Information overload and lecturer mistakes during engineering course organization
Kristina Tihomirova, Linda Mezule

CLab Torino: a transdisciplinary environment to provide a challenge-based teaching model
Chiara Lorenza Remondino, Eleonora Fiore, Paolo Marco Tamborrini

Contributing factors to academic achievements: from community college to university in Hong Kong
Yeena Li, Bin Li, Kin Cheung, Hilda Tsang

Session 7a. Assessment and evaluation III

Thursday 4, 16:30 – 18:00 **Virtual room 1**
Chair: Marita Margarita Mcgrory

Reliability of multiple-choice versus problem-solving student exam scores in higher education:Empirical tests
Eric S Lee, Naina Garg

MOCCA College: An assessment of inferential narrative and expository comprehension
Mark L. Davison, Ben Seipel, Sarah E. Carlson, Virginia Clinton, Patrick C. Kennedy

Practice tests improve performance, increase engagement and protect from psychological distress
Stuart Graham Marlin, Tori English, Lewis Morley, Tahlia O'Keefe-Quinn, Paige Whitfield

Chart for Flexible Curriculum in terms of Time and Similarity
Manuel Fernando Neira Embus, Jesus Hernán Camacho Tamayo, María Alejandra Guzmán Pardo

Session 7b. Innovative learning experiences III

Thursday 4, 16:30 – 18:00 **Virtual room 2**
Chair: Leah Li Echiverri

Project-based learning: A practical approach to implementing Memsource in the classroom
Katrin Herget

Creating a project-based degree at a new university in Africa
Laurel Staab

Veterinary students´ perceptions of participation in a service-learning activity
Marta Elena Alonso, Jose Ramiro Gonzalez Montaña, Juan Carlos Dominguez, Juan Manuel Lomillos

Enhancing students' preparation for the professional field: A quasi-experimental study on a new community service learning module for first year pedagogical sciences students
Leonie Vreeke, Jorg Huijding, Susan Branje, Belinda Hibbel, Jaap Van Der Ham, Isabelle Dielwart, Hanna Mulder

Travel as pedagogy: embodied learning in short-term study abroad
Bridget Mckenney Costello

Session 7c. Teacher education II

Thursday 4, 16:30 – 18:00 **Virtual room 3**
Chair: Orlando E. Contreras-Pacheco

Preliminary study on the awareness of the SDGs in future primary school teachers
Ana Mercedes Vernia-Carrasco, Victoria Pastor-Fuentes, Miguel A. López -Navarro

Information skills and library knowledge for higher education teachers
Tatiana Sanches

Using Virtual Reality to promote pre-service teachers' classroom management skills and teacher resilience: A qualitative evaluation
Jolien Mouw, Marjon Fokkens-Bruinsma, Gert-Jan Verheij

Exploring student teachers' reflection skills: Evidence from journal tasks
Monika Kusiak-Pisowacka

"I really don't know what you mean by critical pedagogy." Reflections made by in-service teachers in the USA
Yin Lam Lee-Johnson

Session 7d. Policies on Higher Education

Thursday 4, 16:30 – 18:00 **Virtual room 4**
Chair: James Folkestad

Internal branding at university: Do tenure and job security matter?
Marta Retamosa, Ángel Millán, Juan Antonio García, María Millán

Bridging the gap between academic and policy-oriented activities in higher education institutions
Laura Márquez-Ramos

Preventing university dropout: the relation between the student vulnerability features and academic performance in the first year
Istrate Marinela, Bănică Alexandru, Athes Haralambie

The Impact of Government Policy on Higher Education International Student Recruiters
Melissa James

FRIDAY 5th

REGULAR SESSIONS: SESSION 8, 10 AND 11

Papers in regular sessions: 15 min presentation plus 5 min Q&A

NON-LINEAR-SESSION: SESSION 9

Papers in non-linear session: iterative 5 min presentations plus Q&A

Session 8a. Competency-based learning

Friday 5, 9:00 – 10:40 **Virtual room 1**

Chair: Sean Sturm

Planned Chaos in Electrical Engineering Education
Thomas Fuhrmann, Michael Niemetz

Student participation and peer-to-peer learning processes in primary education
Eduard Ramirez Banzo

Becoming an Expert, Ambassador or Doing Project Work: Three Paths to Excellence for Students at Artevelde University of Applied Sciences
Bart Lievens, Karel Cappelle, Liesbet Matthys

Future competencies for digitally aligned specialties: coping intelligently with global challenges
Elena Libin

(Natural) Science and Technique in Medicine: Teaching Competences along with Research Activities
Johannes Lang, Holger Repp

Session 8b. Innovative tools for teaching II

Friday 5, 9:00 – 10:40 **Virtual room 2**
Chair: Lindsey Conner

Escape room in education: a bibliometric study
Diana Marin Suelves, Isabel Vidal Esteve, M. Isabel Pardo Baldoví

An Approach to Building Learning Objects
Peter Thaysen

An Investigation of the Role Programming Support Services Have for Mature Students
Keith Nolan, Aidan Mooney, Amy Thompson, Mark Noone

Combined Use of Problem Based Learning and Flipped Learning in Turbomachinery
Juan Ignacio Corcoles, Ángel Martínez-Romero

Design of three-dimensional cartographical didactic materials for Physical Geography teaching
Luis M. Tanarro, Jose Úbeda, Nuria De Andrés, José M. Fernández-Fernández, Javier De Marcos, Diana Ovaco, Jesús García, David Palacios

Session 8c. Entrepreneurship and employment

Friday 5, 9:00 – 10:40 **Virtual room 3**
Chair: Susan K. Walker

Employability skills of graduates:Insights from job advertisements
Abdul Suleman, Fátima Suleman, Filipa Cunha

The Value of an Enterprise Postgraduate Research Programme for creating business start-ups in the UK
Kassandra A. Papadopoulou, Robert A. Phillips

Entrepreneurship and University Spin-offs for (Academic) Employment?
Augusto Cocorullo, Stefano Boffo, Francesco Gagliardi

Employability Through Experiential Delivery of Intercultural Communication Skills Online
Isabella Christine Crawford, Stephanie Swartz, Belem Barbosa, Susan Luck

Faculty management after higher education reforms – exploring the organizational structure of faculties considering their context factors
Ilse Hagerer

Session 8d. Innovative learning experiences IV

Friday 5, 9:00 – 10:40 **Virtual room 4**
Chair: Paul Wilson

Projects with added value to increase competitiveness and student satisfaction
Sílvia Espinosa Mirabet, Jordi Serra Simón, Joaquim Majó Fernández

Interaction in spoken academic discourse in an EMI context: the use of questions
Jane Helen Johnson, Mariangela Picciuolo

A score methodology to assess concept maps in medical education in the context of pathophysiology teaching
Nuno Neuparth, Marta Fonseca, Beatriz Oliveira, Pedro Carreiro-Martins, António Rendas

Conceptual Framework for Assessing Process Variables Salient for Service -Learning Experience
Ka Hing Lau, Robin Snell

Session 9a. Non-linear session III

Friday 5, 11:15 – 12:15 **Virtual rooms: from 1 to 13**

(VR1) A Comparison of students' attitudes and attainment on an enterprise module for scientists and engineers
Robert Phillips

(VR2) Assessing Community Impact after Service-Learning: A Conceptual Framework
Ka Hing Lau, Robin Snell

(VR3) Transforming YouTube into a valid source of knowledge for Anatomy students
Antoni Alegre-Martínez, Maria Isabel Martínez-Martínez, Jose Luis Alfonso -Sánchez

(VR4) Functional and conservation value of fruits – a lab approach
Rui Manuel Alves Ferreira, Isabel Maria Simão Alves-Pereira, Joana Manuela Capela-Pires, Marta Sofia Garcia Candeias

(VR5) Challenging students to develop work-based skills: A PBL experience
Alba Manresa Matas, Jasmina Berbegal-Mirabent, Dolors Gil-Domenech

(VR6) The power of peer-review: A tool to improve student skills and unit satisfaction
Ruth Wallace, Shelley Beatty, Jo Lines, Catherine Moore, Leesa Costello

(VR7) The Validation of a Quantitative Measure of Self-authorship among Chinese University Students
Dorothy Tao Li

(VR8) Student Understanding of Number Line Graphs
Alison Mirin

(VR9) Socrative in the Language Classroom: Tackling Classroom Anxiety and Encouraging Participation
Jennifer Irene Wood

(VR10) The role of internationalisation in students' cultural literacy and intercultural communication
Alina Romanovska, Irina Presnakova

(VR11) The Challenge of Research Supervision: The Experience of Lecturers in Various Academic Disciplines
Angela Siobhan Wright

(VR12) Advancing understandings on Students' Mobility as a Tool to reach 2030 Agenda
Rosalina Pisco Costa

(VR13) Using Real Data in a quantitative methods course to enhance teachers' and school leaders' statistical literacy
Manuela Heinz

Session 10a. Student attitudes

Friday 5, 12:15 – 13:15 **Virtual room 1**
Chair: Isabella Christine Crawford

Class Discussion and Class Participation: Determination of Their Relationship
Keer Xu, Leah Li Echiverri, Haoyu Shang

Relationships Between External Factors and University Students' Attitudes towards Academic Research
Jiying Yang, Leah Li Echiverri, Feng Tang

Student Engagement in Co-designing and Co-teaching Cornerstone Course of EECS Design and Implementation at National Taiwan University
Shi-Chung Chang, Jennifer Wen-Shya Lee, Kun-You Lin, Ho-Lin Chen, Ji-un-Peng Chen, Shih-Yuan Chen, Chien-Mo Li, Rui-Fu Xu, Tzi-Dar Chiueh, Hsiao-Wen Chung, Niccolo Chen

Session 10b. Internationalization

Friday 5, 12:15 – 13:15 **Virtual room 2**
Chair: Ilse Hagerer

A Case Study of Internationalization in Chinese Non-government Institutions
Mei Wang, Lindsey Conner, Bev Rogers

Did the Bologna Process contribute to improving international students' success rates in Germany's HEIs? Twenty years of success rates in Germany: how the Bologna Process impacts on the success rates of International and German students.
Marita Margarita Mcgrory

European Joint Doctorates: myth or reality?
Pilar Coy Fuster, Sebastian Canovas, Ann Van Soom, Nicola Bernabo, Patrick Lonergan, Karl Schellander

Session 10c. Strategies and experiences in HE

Friday 5, 12:15 – 13:15 **Virtual room 3**
Chair: Jane Helen Johnson

Alternative Strategies for Higher Education Provision at TAFE Queensland
Paul Wilson

Critical Thinking and Culturally-Sustaining Teaching: Developing the Historical Literacy of Māori and Pasifika Undergraduates in Aotearoa/New Zealand
Nancy November, Sean Sturm, Ema Wolfgramm-Foliaki

Addressing engineering threshold concepts in an African university of technology
Leanri Van Heerden, Nicolaas Luwes

Session 11a. Learning and educational models II

Friday 5, 14:45– 15:45 **Virtual room 1**
Chair: Keith Nolan

Drugs, Achievements and Educational Systems: Predictive Models for Society and Education through Speculative Data
Ana S. Moura, João Barreiros, M. Natália D. S. Cordeiro

Classroom Learning Motivators: Breaking ESL Chinese university students' passivity in class discussion.
Leah Li Echiverri

Factors That Shape University Students' Attitudes Towards Academic Research
Leah Li Echiverri, Wanghan Chen, Xinyi Wang

Session 11b. Organizational aspects

Friday 5, 14:45– 15:45 **Virtual room 2**
Chair: Marta Elena Alonso

Perceptions of organizational injustice in French business schools
Lovasoa Ramboarisata, Linda Ben Fekih Aissi

Stakeholder Management: Formulating a Primer for Practitioners
Orlando E. Contreras-Pacheco, Juan C. Lesmez-Peralta

Staff Experiences of Victoria University's First Year College During the Implementation of Block Mode Teaching
Humberto Manuel Oraison, Loretta Konjarski, Janet Young, Samuel Howe, Andrew Smallridge

Session 11c. E-learning

Friday 5, 14:45– 15:45 **Virtual room 3**
Chair: Leonie Vreeke

On the Use of Bayesian Probabilistic Matrix Factorization for Predicting Student Performance in Online Learning Environments
Jung Yeon Park, Jinho Kim, Wim Van Den Noortgate

A Student Workload Estimator Tool: Rethinking Modular Credit
Liwen Lai, Bimlesh Wadhwa

Public Health Observatories: a learning community model to foster knowledge transfer for sustainable cities
Domenico Vito, Manuel Ottaviano, Maria Fernanda Cabrera, José Gabriel Teriús Padrón, Vittorio Casella, Riccardo Bellazzi

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