Universidad Continental

# III Congreso Internacional **de Tendencias en Innovación Educativa**

Proceedings

Universidad Continental, Perú
Del 9 al 11 de diciembre del 2020
Proceedings

CEUR-WS.org/Vol-3099/preface.pdf

Klinge Orlando Villalba-Condori | Jari Lavonen
Lung Hsiang Wong | Aman Yadav

*III Congreso Internacional de Tendencias en Innovación Educativa*
*Proceedings*

Klinge Orlando Villalba-Condori, Jari Lavonen, Lung Hsiang Wong, Aman Yadav
Editors

First edition e-book
Huancayo, December 2020
Avalaible in: https://repositorio.continental.edu.pe/

© 2020 for the individual papers by the papers' authors

Universidad Continental SAC
Av. San Carlos 1980, Huancayo, Perú
Teléfono: (51 64) 481-430 anexo

ISBN electrónico 978-612-4443-27-5
DOI: http://dx.doi.org/10.18259/978-612-4443-27-5
Hecho el depósito legal en la Biblioteca Nacional del Perú N.° 2021-01155

Copying permitted for private and academic purposes. Re-publication of material from this volume requires permission by the copyright owners

## Preface

CITIE 2020, focused on Post COVID-19 Digital Education, due to the context of the pandemic has been developed in a virtual way. CITIE promotes spaces for dialogue and reflection among teachers, managers and researchers related to education. This edition of CITIE has allowed the socialization of the trends and innovations that are manifesting themselves in diverse educational contexts. On this occasion there have been 80 manuscripts of which 36 were accepted for presentation, these are framed in the thematic areas of this edition:

- Digital Education.
- Trends in Education.
- Educational Innovation.

We understand that education is the only tool for change in society and these spaces of socialization, such as CITIE, favor this development.

December 2020 The editors.

## Organizing Committee

Emma Barrios Ipenza (Universidad Continental)
Walter Curioso Vílchez (Universidad Continental)
Klinge Villalba Condori (Universidad Continental)
Karen Pérez Maravi (Universidad Continental)
Isabel Chuquillanqui Galarza (Universidad Continental)
Nabilt Moggiano Aburto (Universidad Continental)
Rubi Fox Bazán (Universidad Continental)
Erika Urcia Harlet (Universidad Continental)
Liu Taipe Palomino (Universidad Continental)

## Scientific Committee

Agustín Aduríz Bravo (Universidad de Buenos Aires, Argentina )
Alejandra Beatriz Lliteras (UNLP, Facultad de Informática, LIFIA. Also CICPBA, Argentina)
Aman Yadav (Universidad de Michigan, EEUU)
Angel Fidalgo (Universidad Politécnica de Madrid, España)
Antoni Granollers (University of Lleida, España)
Antonio Silva Sprock (Universidad Central de Venezuela)
Ari Myllyviita (Viikki Teacher Training School of Helsinki University, Finlandia)
Arturo Moquillaza (Pontificia Universidad Católica del Perú)
August Climent-Ferrer (La Salle Campus Barcelona - Ramon Llull University, España)
Azeneth Patino (Laval University, Canada)
Beatriz Toscano de la Torre (Universidad Autonoma de Nayarit, México)
Belén Ballesteros Velázquez (UNED, España)
Carina Gonzalez-González (Universidad de La Laguna, España)
Cristian Cechinel (UFSC - Federal University of Santa Catarina, Brasil)
Diego Torres (UNLP, LIFIA, Argentina)
Eliana Gallardo (Universidad Peruana de Ciencias Aplicadas, Perú)
Fernando Bordignon (Universidad Pedagógica Nacional, Argentina)
Fiorela Fernandez Otoya (Universidad Santo Toribio de Mogrovejo, Perú)
Francisco García Peñalvo (GRIAL- Universidad de Salamanca, España)
Héctor Cardona Reyes (Centro de Investigación en Matemáticas A.C., México)
Huizilopoztli Luna-García (Universidad Autonoma de Zacatecas, México)
Indira Gomez Arteta (Universidad Nacional del Altiplano, Perú)
Ismar Frango (Universidade Presbiteriana Mackenzie, Brasil)
Ivan Montes (Sociedad de Investigación Educativa Peruana, Perú)
Ivan Curioso (Universidad Continental, Perú)
Jaime Muñoz (Universidad Autonoma de Aguas Calientes, México)

Jari Lavonen (Universidad de Helsinki, Finalndia)
Jorge Sanabria (Tecnológico de Monterrey, México)
Jorge Maldonado-Mahauad (Universidad de Cuenca, Pontificia Universidad Católica de Chile)
José Antonio Pow-Sang (Pontificia Universidad Católica del Perú)
Jose Machicao (Universidad Continental, Perú)
Juan Cabrera Ramos (Universidad Católica de Temuco, Chile)
Juan Carlos Grande Ccalla (Universidad Nacional de San Agstín de Arequipa, Perú)
Juan Gonzalez Calleros (Benemerita Universidad Autónoma de Puebla, México)
Julio Guerra (University of Pittsburgh, EEUU)
Klinge Villalba-Condori (Universidad Continental, Perú)
Lilliam Enriqueta Hidalgo Benites (Universidad Nacional de Piura, Perú)
Luis Marques (Rovira i Virgili Unversity, España)
Lung-Hsiang Wong (NIE-Singapur)
Marcos Román-González (UNED, España)
María del Pilar Ponce Aranibar (Universidad Católica de Santa María, Perú)
Maria Popescu (Carol I National Defence University, Rumania)
Miguel Ángel Córdova Solís (Universidad Continental de Ciencias e Ingeniería, Perú)
Mireia Usart (Universitat Rovira i Virgili, España)
Nguyen-Thinh Le (Humboldt-Universität zu Berlin, Alemania)
Omar Antonio Vega (Universidad de Manizales, Colombia)
Pablo Torres-Carrion (Universidad Tecnica Particular de Loja, Ecuador)
Raidell Avello (Universidad de Cienfuegos, Cuba)
Rita Ames Guerrero (Universidad Católica de Santa María, Perú)
Rosanna Costaguta (Universidad Nacional de Santiago del Estero, Argentina)
Sandra Cano (Pontifica Universidad Católica de Valparaiso, Chile)
Santiago Cueto (GRADE, Perú)
Silvia Espinoza Suarez (Universidad Nacional Mayor de San Marcos, Perú)
Svieta Fernandez Gonzales (MINEDU, Perú)
Turner Lam (National Tsing Hua University, Taiwan)
Vanessa Agredo Delgado (Unicauca, Colombia)
Yenny Mendez (Universidad Mayor, Chile)

## Contents

**Redesigning Educational Innovation in the Post-COVID-19 Era**
*Klinge Villalba-Condori, Jari Lavonen, Lung-Hsiang Wong & Aman Yadav* **9**

**Developing Problem-Solving skills in Engineering through a Programming Methodology: a Team-Work Visual Approach**
*Elizabeth Vidal, Milagros Zegarra, Ricardo Gacitua & Mauricio Dieguez* **13**

**Measuring Students' Competencies with ShareLook as a Digital Portfolio**
*Kee-Fui Turner Lam, Tzu-Hua Wang, Raanan Nedivi* **22**

**Use of Music to Enable the Social Inclusion of Deaf Children Using Robotics and Recreational Activities**
*Cristiano da Silva Benites & Ismar Frango Silveira* **29**

**Strengthening Capacities of an Academic Network of Digital Fabrication Laboratories and the Role of International Collaboration in Times of COVID-19**
*Walter Humberto Curioso Vilchez, Lelis Gabriela Coronel-Chucos, Juan Diego Cerrón-Salcedo and Covadonga Lorenzo* **38**

**A Literature Review of the YouTube Phenomenon and the Teaching and Learning Practices**
*Esteban Azzara, Fernando Raúl Alfredo Bordignon & Lucila Dughera* **47**

**Collaborative Construction of a Wiki to Promote Self-Learning of Discrete Mathematics: a University Experience**
*Norka Bedregal-Alpaca* **57**

**Theoretical Approach to the Problem of Macro-Micro Relationships in Secondary Chemistry Teaching: A Proposal Based on Observation and Inference**
*Davut Saritas, Hasan Özcan & Agustín Adúriz-Bravo* **67**

**Developing Technical Writing for Engineering Students under a Paper Conference Format**
*Elizabeth Vidal & Eveling Castro* **77**

**The Experience and Cognitive Performance as a Gamer During the use of Educational Video Games**
*Rita Judith Ames-Guerrero, Evelyn Castro-Gutierrez, Teresa Ramos-Quispe, Jaime Muñoz-Arteaga & Christian Rojas* **87**

**Learning Styles and Flipped Classroom: An Experience in Secondary School**
*Vicent Fornons & Ramon Palau* **98**

**VirtuaLecto Storytelling Content Creation Platform using Augmented Reality and Virtual Reality**
*Julio Vera-Sancho, Christian Condori Mamani, Gustavo Suero-Soto, Juan Callacondo-Velarde & Wilber Anibal-Valdez* **110**

**Learning from Students. Uses of Non-Formal Digital Spaces in Distance Higher Education**
*Alberto Izquierdo-Montero, Javier Morentin Encina & Belén Ballesteros Velázquez* **122**

**The Effectiveness of an Executive Functions Program on Reducing Sociolinguistic Communicative Disorders in Children with Autism**
*Ahmed Mohamed Atef Azazzy* **132**

**Usability Experience in the Calculation of Pharmacokinetic Parameters with Software: Phenytoin Case**
*Gonzalo Dávila, Rita Nieto, Karin Vera & Stefhano Olivo* **143**

**IdBookstore : An Innovation Digital Book Design Using User Experience with Ubiquity Smart Reader**
*Muhammad Ashar, Suyono Suyono, Agusta Rakhmat Taufani & Siti Nur Khofifah* **155**

**Evaluation of the Index of Similarity Detected by Turnitin® in Research Projects of a Master's Degree in Higher Education**
*Dennis Arias-Chávez, Teresa Ramos-Quispe, Alberto Patricio Lanchipa-Ale, Elmer Benito Rivera-Mansilla & Juan Enrique Quiroz Vela* **166**

**An Open Educational Game Based on Re-Purpose for Teaching Technical**

**English in the Context of Computer Programming at Brazil**
*Josivan Silva & Ismar Silveira* **177**

**Immersive Experience through Virtual Reality App to Generate Spaces for Synchronous Interaction**
*Miguel Ángel Córdova Solís* **187**

**Post COVID-19 Macrotrends in the Pedagogical Practice of Professors**
*Cristhian Nicolas Aldana Yarleque, Vannia Stefany Mestanza Calderon & Yesenia Saavedra Navarro* **198**