15th International Multi-Conference on Society, Cybernetics and Informatics (IMSCI'21)

Online 18 - 21 July 2021

Editors:

Nagib Callaos Jeremy Horne Belkis Sanchez Michael Savoie

ISBN: 978-1-7138-3518-9

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by International Institute of Informatics and Systemics (IIIS) All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact International Institute of Informatics and Systemics (IIIS) at the address below.

International Institute of Informatics and Systemics (IIIS) 13750 West Colonial Dr. Suite 350-408 Winter Garden, Florida 34787 USA

Contact-us@iiis.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

Table of Contents	i
Applications of Information and Communication Technologies in Education and Training	
Acevedo, Elena; Acevedo, Antonio; Chavez, Alexa (Mexico): "Improvement for Facial Gestures Classification to Control a Drone"	1
Basyal, Ganga Prasad; Zeng, David; Rimal, Bhaskar P. (USA): "Development of CNN Architectures Using Transfer Learning Methods for Medical Image Classification"	6
Applications of Information and Communication Technologies in Education and Training	
Chan Mow, Ioana; Patu, Tara; Temese, Edna; Lafaele, Fiafaitupe (Samoa): "Transitioning from Training to the Classroom: An Evaluation of the Effectiveness of Training in Using Tablets in Schools: Teachers' Perspectives"	12
Cuthbert, Carol; Pearse, Noel (South Africa): "Strategic Use of Low Code Platforms"	18
Gómez-Tone, Hugo C. *; Alpaca Chávez, Marizela *; Martin-Gutierrez, Jorge ** (* Peru, ** Spain): "Introduction of the IVR in the Initial Phases of the Ephemeral Space Design by Students of the First Year of Architecture"	23
Gómez-Tone, Hugo C.; Manchego-Huaquipaco, Edith Gabriela; Butron-Revilla, Cinthya; Zeballos- Velarde, Carlos (Peru): "The Architectural Space Perception Through Different Visualization Media"	29
Kalenov, Nikolay; Sobolevskaya, Irina; Sotnikov, Alexander (Russian Federation): "The Role of the Common Digital Space of Scientific Knowledge in the Educational Technology Development"	35
Makhachashvili, Rusudan; Semenist, Ivan (Ukraine): "Interoperable Digital Skills for Foreign Languages Education in the COVID-19 Paradigm"	39
Case Studies and Methods	
Kunigami, Masaaki; Kikuchi, Takamasa; Terano, Takao (Japan): "A Formal Model for the Business Innovation Case Description"	45
Orantes-Jiménez, Sandra-Dinora; Pérez-Castillo, Yadira-Jazmín; Cruz-Cortés, Nareli; Aguilar-Jaúregui, María-Elena (Mexico): "Process Proposal and Acceptance Survey by Work Teams for the Adoption of the Agile Approach Using Machine Learning"	50

Education and Meta-Education

Cowin, Jasmin (USA): "Education and Globalization: Artificial Intelligence, Augmented Reality Digital Technologies, and Distributed Ledger Technology Networks"	56
Makhachashvili, Rusudan; Semenist, Ivan (Ukraine): "Digital Meta-Skills Development for Interdisciplinary Competence in Foreign Languages Education"	62
Tsami, Eleni (Greece): "Teaching Statistics in the Time of the Covid-19 Pandemic"	68
Education and Training Systems and Technologies	
Laosethakul, Kittipong; Leingpibul, Thaweephan (USA): "Perceived Ease of Use, Perceived Usefulness, and Behavioral Intention to Use Multimedia Teaching Methods for SAP ERP: Application of the Technology Acceptance Model"	74
Lipuma, James; Leon, Cristo (USA): "Converged Learning: The Spectrum of Technology-Mediated Learning"	82
Education in Science, Technology, Engineering and Mathematics	
Adarlo, Genejane; Favis, Abigail Marie; Gotangco-Gonzales, Charlotte Kendra; Guidote, Armando Victor Jr. (Philippines): "Lessons Learned in Pursuit of Lifelong Learning in Science, Technology, and Society"	88
Alessio, Francesca; de Fabritiis, Chiara; Telloni, Agnese Ilaria (Italy): "A STEM Literacy Program for Students in Secondary-Tertiary Transition to Reduce the Gender Gap: a Focus on the Students' Perception"	94
Educational Research, Theories, Practice and Methodologies	
Arnold, Amy J.; Keyel, Jared; Soysal, Alkan; Kretser, Michael; Sagheb, Shahabedin; Rikakis, Thanassis (USA): "Toward an Integrative Professional and Personal Competency-Based Learning Model for Inclusive Workforce Development"	100
Gaete-Peralta, Claudio (Chile): "Ideal Preferences for Thinking Styles in Engineering Graduates: Educational Proposals to Assurance Graduation Profiles Through Mathematics Courses"	106
Hendel, Russell Jay (USA): "A Feasible Operational Approach to Differentiated Instruction"	111
Mele, Michele; Sicignano, Gennaro (Italy): "Mathematics and Blindness: The Legacy of Abraham Nemeth"	117
Moura-Vieira, Maria Edna *; Alves-Hopf, Simone **; Callado, José Tomas Real *; Hoefel, Maria das Graça Luderitz *** (* Spain, ** Germany, *** Brazil): "Articulating Methodology: A Potentiator Device on Permanent Health Education"	121

Thomas Coffman, Jana (USA): "Student Choices and Perceptions of Distance-Learning Courses	127
During the COVID-19 Pandemic"	

Authors Index

133