

15th International Conference on Society and Information Technologies (ICSIT 2024)

Online
26-29 March 2024

Editors:

**Nagib Callaos
Jeremy Horne
Belkis Sánchez**

Trung Tran

ISBN: 978-1-7138-9520-6

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© (2024) by International Institute of Informatics and Systemics (IIS)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

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

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

Contact-us@iis.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
Education Research, Theories, Practice, and Innovations	
Carreño-Adasme, Mónica; Valenzuela-Molina, Macarena; Huincahue, Jaime; Gaete-Peralta, Claudio (Chile): "Pedagogical and Content Knowledge in the Educational Practices of Novice Mathematics Teachers in Primary Education"	1
Carreño-Adasme, Mónica; Gaete-Peralta, Claudio; Huincahue, Jaime (Chile): "Chilean Standards and Identified Gaps in Teacher Training in Primary Education with a Specialisation in Mathematics"	5
Mathenjwa, Samukelisiwe; Masengo, Ilunga; Lugoma, Masikini (South Africa): "Assessing Correlations of Enrolments among South African Universities of Technology and Comprehensive Universities"	10
Petrović, Borna; Poje, Irena; Feldvari, Kristina (Croatia): "The Use of ChatGPT in Higher Education Teaching: Subject Information Behavior of LIS Students"	14
Sepúlveda-Herrera, Carol; Huincahue, Jaime (Chile): "Systematic Review of Mathematical Modelling from Ethnomathematics: Insights into Teacher Education"	21
Sepúlveda-Herrera, Carol; Huincahue, Jaime (Chile): "The Practice of Chess Players as a Socio-Cultural Expression for Research in Ethnomathematics – A Proposal in Development"	24
Education: Concepts, Technologies and Methodologies	
Cwiakala, Martin (USA): "Teaching Tomorrow's Engineers: A Teacher's Odyssey of Learning and Implementation of AI"	29
Hunjet, Anica; Kuštelega, Lea; Vuković, Dijana (Croatia): "Influence of Competency Development on Corporate Climate and Economical Knowledge Management in Organizations"	35
Ilunga, Masengo; Ramdass, Kemlall (South Africa): "An Approach for Assessing Uncertainty Associated with Electronic Tutoring Performance in Engineering Academic Environment"	43
Kyriakidis, Kleonthis; Koikas, Evgenia; Elbahwashy, Hebatalla (United Arab Emirates): "Overcoming Teaching Challenges in Multicultural and Multilingual Classrooms"	47
Lugoma, Masikini; Ilunga, Masengo (South Africa): "A Markov Chain Approach for the Evaluation of Global Performance of Universities of South Africa"	54

Impact of Information and Communication Technologies (ICT) on Societies

- Lee, Ya-Hui; Cha, Hsien-Ta; Wang, Yi-Fen (Taiwan): "Leading a Cross-Disciplinary Team in the Design of Assistive Technology Products for Older Individuals: A Leader's Experience" 59
- Londoño Peláez, Jorge Mario; Echavarría Arcila, María Alejandra; Betancur Agudelo, Leonardo; Giraldo Ramirez, Diana Patricia; Orozco Salazar, Laura (Colombia): "Shared-Data Governance Frameworks" 65
- Pizziolo, Giorgio; Micarelli, Rita (Italy): "Disorder and Complexity in Contemporary Ecosystems Man/Society/Environment" 71
- Verma, Shubham; Dave, Nisarg; Johnson, Daryl (USA): "Covert Channel Using User-Agent String in the HTTP Header" 78
- Wang, Yi-Fen; Lee, Ya-Hui (Taiwan): "Exploring the Implementation of Gerontechnology in Long-Term Care Services: Community-Based Day and Night Care Units in Taiwan" 85

Internationalization of Educational Science on the Digital Ecosystem - Invited Session

Organizer: Trung Tran (Vietnam)

- Nguyen, Phuong Lan; Huynh, Tan; Nguyen, Thuy Nhu Thi; Do, Truc Thanh Thi (Vietnam): "The Impact of Green Human Resource Management on the Green Innovation Process: Evidence from Universities in Vietnam Examining Green Culture and Employee's Green Motivation" 91
- Nguyen, Phuong Lan; Do, Truc Thi Thanh; Huynh, Tan (Vietnam): "A Study on the Alignment of Employee Proactive Personality and the Open Innovation Model of Educational Environment in Vietnamese Universities" 97
- Nguyen, Trang Ngoc; Pham, Hien Minh Thi; Tran, Tinh Xuan; Do, Lan Truc Thi; Pham, Anh Ngoc (Vietnam): "Perceived Impacts and Challenges to the Modular Approach to Curriculum Development in Viet Nam: Vocational Education and Training" 103
- Tran, Cam Ai (Vietnam): "The Innovative and Entrepreneurial University – A Case Study of Nguyen Tat Thanh University" 111
- Tran, Trung; Ha, Nghia Trong (Vietnam): "Management of Training and Fostering of Ethnic Minority Cadres in Vietnam" 117
- Tran, Trung; Nguyen, Tram Phuong Thuy; Nguyen, Bich Ngoc (Vietnam): "Analysis of Factors Influencing Poor Performance in Mathematics of High School Students: Case Study in Vietnam" 122

Learning Technologies

- Alshathri, Iman *; Komlodi, Anita **; Kuber, Ravi ** (* Saudi Arabia, ** USA): "Developing an Approach to Integrate Virtual Reality Technologies to Support Service Learning Instruction" 130

Dikgwatlhe, Israel; Mkonde, Akhona; Mosia, Ngaka; Ilunga, Masengo (South Africa): "The Social Aspect for Learner Support in Open Distance Education"	135
Fontanella, Sabrina *; Fraccascia, Luca **; Nonino, Fabio *; Scarnicchia, Alessandra * (* Italy, ** Netherlands): "Sustainable Business Model in Practice: A Digital Business Game Training for High School Students"	139
Ilunga, Masengo; Ikotun, Bolanle; Maduna, Lusiwe (South Africa): "Assessing Technology Integration in Teaching and Learning within Open Distance Education"	146
Mosia, Ngaka; Dikgwatlhe, Israel; Ilunga, Masengo (South Africa): "Trends of Emerging Technology in Online Learning"	151
Authors Index	157