

**Education and New Developments**  
**2023**

**Volume 2**

**Edited by**  
**Mafalda Carmo**

*Edited by* Mafalda Carmo, World Institute for Advanced Research and Science (WIARS), Portugal

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## BRIEF CONTENTS

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Foreword	v
Organizing and Scientific Committee	vii
Sponsor	xii
Keynote Lecture	xiii
Index of Contents	xv



## FOREWORD

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This book contains the full text of papers and posters presented at the International Conference on Education and New Developments (END 2023), organized by the World Institute for Advanced Research and Science (WIARS).

Education is a fundamental right that accompanies us from the very beginning of our lives. It encompasses every experience we encounter, influencing and shaping our thoughts, emotions, and actions. Whether we engage in formal education within classrooms or learn from the world around us, the process of acquiring knowledge plays a vital role in our personal growth and development. It equips us with the tools to navigate the complexities of life, broadens our perspectives, and empowers us to make informed decisions. This International Conference seeks to provide some answers and explore the processes, actions, challenges and outcomes of learning, teaching and human development. Our goal is to offer a worldwide connection between teachers, students, researchers and lecturers, from a wide range of academic fields, interested in exploring and giving their contribution in educational issues.

We have brought together a diverse group of individuals with various backgrounds to contribute their unique perspectives and knowledge on Education. By including people from different nationalities and cultures, we aim to create a rich plethora of experiences that can broaden our understanding of human nature and behavior. The exchange of ideas and experiences among our participants helps to cultivate personal and academic development, providing a platform for the exploration of new insights and discoveries.

END 2023 received 758 submissions, from more than 45 different countries, reviewed by a double-blind process. Submissions were prepared to take form of Oral Presentations, Posters, Virtual Presentations and Workshops. The conference accepted for presentation 279 submissions (37% acceptance rate).

The conference also includes one Keynote presentation by Dr. Omid Noroozi, Associate Professor of Educational Technology, Wageningen University and Research (WUR), The Netherlands. We would like to express our gratitude to our invitee.

This conference addressed different categories inside the Education area and papers are expected to fit broadly into one of the named themes and sub-themes. To develop the conference program, we have chosen four main broad-ranging categories, which also covers different interest areas:

- In **TEACHERS AND STUDENTS**: Teachers and Staff training and education; Educational quality and standards; *Curriculum* and Pedagogy; Vocational education and Counselling; Ubiquitous and lifelong learning; Training programs and professional guidance; Teaching and learning relationship; Student affairs (learning, experiences and diversity; Extra-curricular activities; Assessment and measurements in Education.
- In **PROJECTS AND TRENDS**: Pedagogic innovations; Challenges and transformations in Education; Technology in teaching and learning; Distance Education and eLearning; Global and sustainable developments for Education; New learning and teaching models; Multicultural and (inter)cultural communications; Inclusive and Special Education; Rural and indigenous Education; Educational projects.
- In **TEACHING AND LEARNING**: Critical, Thinking; Educational foundations; Research and development methodologies; Early childhood and Primary Education; Secondary Education; Higher Education; Science and technology Education; Literacy, languages and Linguistics (TESL/TEFL); Health Education; Religious Education; Sports Education.
- In **ORGANIZATIONAL ISSUES**: Educational policy and leadership; Human Resources development; Educational environment; Business, Administration, and Management in Education; Economics in Education; Institutional accreditations and rankings; International Education and Exchange programs; Equity, social justice and social change; Ethics and values; Organizational learning and change, Corporate Education.

The contributions were published across two volumes, and this is the Volume 2 of the book titled *Education and New Developments 2023*, that showcases the outcomes of dedicated research and developments undertaken by authors who are driven by their passion to enhance research methods that directly relate to teaching, learning, and the practical applications of education in the present day. Within its pages, you will find a diverse array of contributors and presenters who expand our perspectives by delving into various educational matters.

This second volume focuses on the main areas of PROJECTS AND TRENDS and ORGANIZATIONAL ISSUES, being the contributions of the other two areas published in Volume 1.

We would like to express thanks to all the authors and participants, the members of the academic scientific committee, and of course, to our organizing and administration team for making and putting this conference together.

Hoping to continue the collaboration in the future.

Respectfully,

Mafalda Carmo  
World Institute for Advanced Research and Science (WIARS), Portugal  
*Conference and Program Chair*

Lisbon, Portugal, 24 - 26 June, 2023

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## KEYNOTE LECTURE

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### “TOWARDS TRANSFORMATION OF EDUCATION IN THE DIGITAL AGE”

**Dr. Omid Noroozi**

*Associate Professor of Educational Technology, Wageningen University and Research (WUR)  
(The Netherlands)*

#### Abstract

The COVID-19 pandemic has forced transformation in educational settings within a short period of time. Such transformation has led to significant changes in our educational settings not only for students and teachers but also for institutions as such. This implies the need for constant innovations within educational programs to prepare our society for dealing with complex and global issues. In such transformation, digital technologies play a key role in today's classrooms and educational institutions are increasingly developing learning and teaching concepts that rely on the extensive use of such advanced digital technologies. This talk will focus on the key characteristics of transformation in our educational settings in the digital age. Then, the focus will shift towards how to integrate digital technologies in classrooms with particular emphasis on competencies that fit well with the digital age to enhance the process of teaching and learning. It will also focus on the key competencies that are crucial for students to acquire for dealing with complex issues and wicked problems in the digital age. This talk will also provide examples of active teaching methods and how they can be used in classrooms in line with the transformation of education in the digital age. Finally, the outlook of educational settings in the future will be discussed.

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#### Biography

Dr. Omid Noroozi is an Associate Professor of educational technology at Wageningen University and Research, the Netherlands. He explores relations among educational technology, learning, and students' transformative competence development. His Ph.D. (2013, Cum Laude) and research projects have been the subjects of various papers he has delivered at international conferences and various articles published in peer-reviewed journals. Omid has been a visiting scholar at the University of Michigan, USA, University of Oulu, Finland. He has received various research awards such as the most promising publication award at WUR, the best conference, and journal paper awards, nomination for Jan Hawkins award, and several junior research awards. Omid is now serving as an executive board member of the International Society for Technology, Education, and Science (ISTES), a committee member of the CSCL, Editor-in-Chief for the International Journal of Technology in Education (IJTE), and President and Scientific Chair of the International Conference on Studies in Education and Social Science (ICSSES). He has co-edited a couple of collected books, served as an editorial board member of several scientific peer-review journals, and also guest-edited a couple of special issues in top-rank journals in the field of educational research. Omid is an active member of scientific associations e.g. AERA, ISLS, ICO, EARLI, and serves as an active reviewer for international peer-reviewed journals and conferences.



## INDEX OF CONTENTS

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### ORAL PRESENTATIONS

---

#### ***Projects and Trends***

<b>A systematic literature review: A pragmatic model of online engagement and affordances to support adolescent learners</b>	<b>3</b>
<i>Jia Li</i>	
<b>Wondering and grading in Higher Education – A tension ratio?</b>	<b>8</b>
<i>Marilen Schönert</i>	
<b>Vulnerabilities of mobile applications used in distance learning environment</b>	<b>13</b>
<i>Alin Zamfiroiu, Radu Boncea, Ionuț Petre, &amp; Simona Voicu</i>	
<b>Assessment of the different subject areas in an interdisciplinary project</b>	<b>18</b>
<i>Borislava Kirilova</i>	
<b>Collaborative online international learning: A case study</b>	<b>23</b>
<i>Ann Gow</i>	
<b>The MelArete project: Theory and practice of a kindergarten and primary school program for ethical education</b>	<b>27</b>
<i>Luigina Mortari, Federica Valbusa, &amp; Marco Ubbiali</i>	
<b>Digital technologies, mental health challenges and academic language development of indigenous youth: A retrospective</b>	<b>32</b>
<i>Jia Li</i>	
<b>Creative spaces to develop digital competence: Challenges in a university course</b>	<b>37</b>
<i>Séverine Parent</i>	
<b>Dual education in Slovakia and its impact on the employment of graduates</b>	<b>42</b>
<i>Miroslav Warhol, Anton Lisnik, &amp; Martina Kuperová</i>	
<b>Enhancing STEM education in indigenous serving schools using culturally responsive pedagogy</b>	<b>47</b>
<i>Pradeep Dass, Angelina Castagno, Darold Joseph, Chesleigh Keene, &amp; Crystal Macias</i>	
<b>An approach to game-based learning, collaboration and design challenges for teaching the design of mechatronic systems</b>	<b>52</b>
<i>Michael Wendland</i>	
<b>Dialoguing on friendship as political virtue: An experience of citizenship education for primary school children</b>	<b>57</b>
<i>Luigina Mortari, Marco Ubbiali, &amp; Rosi Bombieri</i>	
<b>Scaffolding argumentative essay writing: An online scripted peer feedback and peer feedforward module</b>	<b>62</b>
<i>Saeed Latifi, Omid Noroozi, &amp; Seyyed Kazem Banihashem</i>	
<b>The impact of polychronicity on student performance in digital test situations</b>	<b>67</b>
<i>Stephan Schmucker, &amp; Sönke Häseler</i>	

<b>Pedagogical &amp; technological knowledge and use of digital technologies by faculty before and during pandemic times</b>	<b>72</b>
<i>Martin Omar Moreno Ruíz, José Luis Ramírez-Romero, &amp; José Ángel Vera Noriega</i>	
<b>Predicting student performance from Moodle logs in higher education: A course-agnostic approach</b>	<b>77</b>
<i>Ricardo Santos, &amp; Roberto Henriques</i>	
<b>Art vs school dropout: The theatre-education of ‘Maestri di Strada’ narrated by educators and pupils</b>	<b>82</b>
<i>Elisabetta Fenizia, Filomena Carillo, &amp; Santa Parrello</i>	
<b>Higher education digitalization - Friend or foe?</b>	<b>87</b>
<i>Pasi Hellsten, &amp; Erika Kallionpää</i>	
<b>Assisting learners with homework: Parental attitudes and culture, South African context</b>	<b>92</b>
<i>Sephiri David Hlohlolo</i>	
<b>Exploring alternative pedagogical spaces to support 21st century skills development</b>	<b>97</b>
<i>Judit Langer-Buchwald, &amp; Zsolt Langer</i>	
<b>The evolution of teaching evolution</b>	<b>102</b>
<i>María Martínez-Agüero, &amp; Carola Hernández</i>	
<b>A case study of psychoeducational intervention for language learning</b>	<b>107</b>
<i>Fabio Corsi, &amp; Ivan Traina</i>	
<b>Teachers’ perceptions on international online teamwork and how it can be improved</b>	<b>110</b>
<i>Tanja Vesala-Varttala, &amp; Margarida Morgado</i>	
<b>Inclusive projects in science and technology to secondary and higher education</b>	<b>115</b>
<i>Javier Pereira, Paula M. Castro, Adriana Dapena, &amp; Manuel G. Penedo</i>	
<b>School Volunteering Clubs: How the school context and organisational support shape (un)successfulness</b>	<b>120</b>
<i>Nadja Čekolj, &amp; Bojana Čulum Ilić</i>	
<b>Does identifying and addressing academic difficulties early on contribute to enhanced student success and higher retention rates for a distance learning course?</b>	<b>125</b>
<i>Neil Anderson, Aidan McGowan, Janak Adhikari, David Cutting, Leo Galway, &amp; Matthews Collins</i>	
<b>Effects of increased distance learning on expectations of using flexible teaching methods in higher education</b>	<b>129</b>
<i>Erika Kallionpää, &amp; Pasi Hellsten</i>	
<b>Critical thinking to embed sustainability in engineering courses activities. A systematic literature review</b>	<b>134</b>
<i>Zalóa Aginako, &amp; Teresa Guraya</i>	
<b>Motivation, learning and emotions: Engaging students with science flipped classroom</b>	<b>139</b>
<i>Isabel Ribau</i>	
<b>Innovative writing practices as learning opportunities in a vulnerable school context. A social design inquiry title</b>	<b>144</b>
<i>Paolo Sorzio, &amp; Caterina Bembich</i>	



<b>Early intervention for improving student performance by detecting non-engagement</b>	<b>149</b>
<i>Esha Barlasakar, David Cutting, Andrew McDowell, Neil Anderson, Baharak Ahmaderaghi, &amp; Matthew Collins</i>	
<b>Data science and changing economic landscape as driving factors in higher education</b>	<b>154</b>
<i>Les Sztandera</i>	
<b>Collaborative learning and practical experiences in engineering studies: Working on sustainable development goals</b>	<b>158</b>
<i>María González Alriols, Eneritz Onaindia, José David Nuñez, Isaac Barrio, &amp; Mirari Antxustegi</i>	
<b>Education in times of need</b>	<b>162</b>
<i>Gabriella Velics</i>	
<b>Rethinking rural educational contexts as sites for teacher education to innovate teaching and learning</b>	<b>167</b>
<i>Spencer Clark, Eileen Wertzberger, &amp; Nooshin Darvishinia</i>	
<b>Success stories of Strengths Based Instructional (SBI) approach for children with exceptional needs</b>	<b>172</b>
<i>Sumita Chakraborti-Ghosh</i>	
<b>A design of online learning materials for development of learner autonomy</b>	<b>176</b>
<i>Ryuichi Matsuba, Yusei Suzuki, Akiko Kai, Shin-Ichiro Kubota, Yuriko Ishida, &amp; Makoto Miyazaki</i>	
<b>Identity-based activities carried out through engraving and stamping exercises. Art mediation workshops based on local engravers' works and aimed for students from the city of Tomé in Chile</b>	<b>181</b>
<i>Jessica Castillo Inostroza</i>	
<b>Democratizing education: Pedagogical activism and technological futures</b>	<b>186</b>
<i>Martin Laba</i>	
<b>An educational escape room for computational thinking - Defining the requirements</b>	<b>190</b>
<i>Peter Mozelius, Lisa Sällvin, &amp; Niklas Humble</i>	
<b>Painting and musical composition: Structural correlation of two languages</b>	<b>195</b>
<i>Stjepko Rupčić</i>	
<b>EDUCOAST – Nature-based education in coastal geosciences: A field station in southern Portugal</b>	<b>200</b>
<i>Teresa Drago, Tanya Silveira, Rui Taborda, João Cascalho, M. Conceição Freitas, Francisco Fatela, Ana Ramos, Jacqueline Santos, Ana Isabel Rodrigues, João Afonso, Sebastião Teixeira, Marcos Rosa, Pedro Brito, Mafalda Carapuço, Ana Alberto, Marta Nogueira, Emanuel Surducan, &amp; Paulo Oliveira</i>	
<b>Advocating for paediatric palliative care needs through the development of social networking skills in South African higher education</b>	<b>205</b>
<i>Rika Swanzen</i>	
<b>Gamifying cybersecurity: A study of the effectiveness of a specific gamified tool</b>	<b>210</b>
<i>Giuseppe Trombino</i>	
<b>Radio navigation aids learning, from virtual to real with the Kolb's experiential learning cycle</b>	<b>215</b>
<i>Carlos Rubio, Deibi López, Adrián Delgado, Adrián García, Diego Domínguez, &amp; Jesús Gonzalo</i>	

<b>The development of a method for teaching extended cello techniques using free improvisation</b>	220
<i>Luisa Russi Guzmán</i>	
<b>Recognising South African sign language: Implications for South African local municipalities</b>	224
<i>Sephiri David Hlohlolo</i>	
<b>The socio-musical brain: Study of a music education experience</b>	229
<i>José Lino Oliveira Bueno, &amp; Alexandre Moisés</i>	
<b>Exploring inclusive culture and practice: The perspectives of Macao teachers in informing inclusive teacher education programmes in higher education</b>	234
<i>Elisa Monteiro, &amp; Kiiko Ikegami</i>	
<b>Understanding how the cyberculture has influenced learning strategies choices before and during the pandemic</b>	239
<i>Janaina Cardoso</i>	
<b>Education for Sustainable Development. Perspectives on inequalities through a digital serious game in higher education for student teachers</b>	244
<i>Stephanie Spanu, Lena Tacke, &amp; Vanessa Henke</i>	
<b>Acceptance of Children with Special Needs – The key to universal elementary education</b>	249
<i>Pradipta Kanungo, &amp; Shankar K. Nath</i>	
<b>Youth cyberbullying – Understanding contextual paths to prevention and resilience</b>	254
<i>Shu-Wen Liu</i>	
<b>A comparison of goal achievement of students in a social research methods class during COVID</b>	259
<i>David J. F. Maree, &amp; Marinda Maree</i>	
<b>Future teachers’ attitudes on e-teaching in native language classes and music classes</b>	264
<i>Tomislav Košta, &amp; Slavica Vrsaljko</i>	
<b>Game-based learning in higher education: A comparative study in tourism degrees</b>	269
<i>Sónia Pais, Laura Chagas, &amp; Ana Pires</i>	
 <b><u>Organizational Issues</u></b>	
<b>School leaders of high-need districts and their perspectives of a university-based teacher residency program</b>	274
<i>Valerie Hill-Jackson</i>	
<b>Integrating diversity, equity &amp; inclusion in legal education: Teaching where it’s unexpected</b>	278
<i>Todd Brower</i>	
<b>Leading transformative change: Experiences of first women of color principal leaders in historically ‘white’ schools</b>	283
<i>Samantha Kriger, &amp; Sinobia Kenny</i>	
<b>Institutional measures to prevent and fight against sexual violence in universities – The case of Quebec, Canada</b>	287
<i>Manon Bergeron, Emilie Vert, Isabelle Auclair, Karine Baril, Rachel Chagnon, Simon Lapierre, Alexa Martin-Storey, Marie-Andrée Pelland, Sandrine Ricci, &amp; Lise Savoie</i>	

<b>A conductive alloy: A ‘whole institution’ approach to student (mis)conduct</b>	<b>292</b>
<i>Marc Alexander, Jane Broad, Jenny Hutcheson, &amp; Andrew Struan</i>	
<b>Women working at universities in South Africa – A gender equality perspective</b>	<b>296</b>
<i>Refiloe Mohloakana, &amp; Annamagriet de Wet</i>	
<b>Barriers to reporting sexual violence in higher education: Power dynamics and anticipated costs</b>	<b>301</b>
<i>Manon Bergeron, Catherine Meek-Bouchard, Ihssane Fethi, Karine Baril, Isabelle Daigneault, Jacinthe Dion, Martine Hébert, Alexa Martin-Storey, Geneviève Paquette, Marie-Andrée Pelland, Sandrine Ricci, &amp; Lise Savoie</i>	
<b>The deconstruction of amateurism in American sports</b>	<b>306</b>
<i>Rodney J. Blackman</i>	
<b>The Federal Institutes of Education, Science and Technology and the constitution of a new professionalism of teaching in Brazil</b>	<b>311</b>
<i>Belmira Oliveira Bueno, Mirna Ribeiro Lima da Silva, &amp; Andressa Trevisan Missaki</i>	
<b>Teachers’ roles in realising human rights in challenging contexts</b>	<b>316</b>
<i>Dikeledi Emily Mogorosi, &amp; Annamagriet de Wet</i>	
<b>The relationship between entrepreneurial leadership and teacher job satisfaction: The mediation effect of intraorganizational factors</b>	<b>321</b>
<i>Devorah Eden, &amp; Ido Liberan</i>	

## POSTERS

---

### ***Projects and Trends***

- Online vs onsite: Less satisfaction, but similar effectiveness and academic integrity** 327  
*Lukasz Tanaś*
- Pupils with hearing impairment and their position in the inclusive school** 330  
*Wanda Tureckiová*
- What is important for me? Analysis of university students' answers as tool of well-being research** 333  
*Veronika Michvociková, & Mariana Sirotová*
- Social growth for children and older adults through intergenerational activity** 336  
*Teresa Lewin, Sofia Ben Yair, Barbara Shapir, & Dina Ben Yaish*
- Interactive teaching of physics by video analysis methods** 339  
*Peter Hockicko*
- The impact of the COVID-19 pandemic on education: A case study of the transfer to the online space** 342  
*Ivan Katrencik, & Monika Zatrochova*
- Flipped learning – Innovative, pedagogic approach in education of mechanical engineering students** 345  
*Valentina Haralanova, & Göran Fafner*
- Analysis of university students' needs for inclusive education** 348  
*Mariana Sirotová, & Veronika Michvociková*
- Intercultural competence in 21st century museums: Museum educators' perspectives** 351  
*Senem Bas*
- Elementary and secondary school geosciences hands on learning at Ria Formosa (south Portugal)** 354  
*Teresa Drago, Ana Ramos, Jacqueline Santos, João Afonso, & Ana Alberto*
- Mobile technologies – A key element in contemporary approaches to learning** 357  
*Elisaveta Tsvetkova, Irena Peteva, & Stoyan Denchev*
- Benefits and challenges in using AI-powered educational tools** 360  
*Irina Tzoneva*
- Do gender differences affect in admission and final grades correlation?** 363  
*Rubén Martín-Cabezuelo, Ana Vidaurre, Isabel Tort-Ausina, María-Antonia Serrano, Jaime Riera, Susana Quiles Casado, Nina Navajas-Pertegás, José Molina-Mateo, José María Meseguer-Dueñas, & José Antonio Gómez-Tejedor*
- Reconstructing teachers' discourse to build inclusive interactions using positive discourse analysis and formative intervention** 366  
*Paula Garcia, Keila Barreto, & Ginary Acosta*
- Planting seeds and bearing fruit: Swedish and Japanese educator participation in a symposium of pedagogy discussions regarding SDG-inspired curriculum** 369  
*Michelle Henault Morrone, Yumi Matsuyama, Erik Andersson Tahlen, Inger Björklund, Gunilla Essen, & Evelina Samuelsson*

<b>Educational projects an adequate resource for considering oral and written expression skills</b>	<b>372</b>
<i>Georgiana Ciobotaru</i>	
<b>Game-based learning technology integrated cooperative learning in geography in junior high school</b>	<b>375</b>
<i>Ho-Yuan Chen, Daniel Chia-En Teng, &amp; Tai-Fen Chen</i>	
<b><u>Organizational Issues</u></b>	
<b>Education and training as competitiveness enhancers: The Portuguese case</b>	<b>378</b>
<i>Natália Teixeira, Ana Lúcia Luís, Rui Braz, &amp; Tetiana Kornieieva</i>	
<b>Blended intensive programmes: Promoting internationalization in higher education</b>	<b>381</b>
<i>Sonja Gögele, &amp; Petra Kletzenbauer</i>	
<b>Leadership in the educational environment and its consequences on psychological health</b>	<b>384</b>
<i>Carole Sénéchal, Luc Brunet, Denis Morin, Jean-Sébastien Boudrias, &amp; Serge Larivée</i>	
<b>Education and economic growth: A key relationship for Ukraine in the post - Conflict period</b>	<b>387</b>
<i>Ana Lúcia Luís, Natália Teixeira, Tetiana Kornieieva, &amp; Rui Braz</i>	
<b>Effects of life education on attitudes toward well-being</b>	<b>390</b>
<i>Yi-Mei Wang, Ho-Yuan Chen, &amp; Tai-Fen Chen</i>	

## VIRTUAL PRESENTATIONS

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### Projects and Trends

- Innovative student-centred strategies in higher education: An experience of active foreign language learning** 395  
*Véronique Delplancq, Ana Maria Costa Lopes, José Pereira, & Susana Fidalgo*
- Experiences of teachers in the enactment of simulations in 5E inquiry-based science teaching** 400  
*Gloria Makamu, & Umesh Ramnarain*
- Comparison of the learning process of high school students before, during and after the pandemic** 405  
*Florentina Alina Grigorescu (Pîrvu)*
- Analysis of the initial acceptance of the Bee-Bot robot in students with Autism Spectrum Disorder** 410  
*Elena Pérez Vázquez, Gonzalo Lorenzo Lledó, Asunción Lledó Carreres, Alejandro Lorenzo Lledó, & Alba Gilabert Cerdá*
- Harnessing pedagogical affordances of online tools to enhance grade 11 Physical Sciences learners' conceptual understanding of Electromagnetism** 415  
*Sam Ramaila*
- Learning styles, technostress & blended learning – Implications for the educational model of the future** 419  
*Iris Stocker, Teresa Spieß, & Christian Ploder*
- Augmented Reality promotes social responses in Autism Spectrum Disorder subjects** 424  
*Alba Gilabert-Cerdá, Gonzalo Lorenzo Lledó, Alejandro Lorenzo-Lledó, Asunción Lledó Carreres, & Elena Pérez-Vázquez*
- A fictitious vehicle manufacturing company at a university as interdisciplinary framework to combine study programs** 429  
*Tobias Peuschke-Bischof, & Stefan Kubica*
- Online teaching, learning, and assessment: Lessons in affective education and skill development during the pandemic** 434  
*Tara K. Hammar, & Patrick Griswold*
- Sustainable fashion design practice in the studio-based classroom** 439  
*Xiaozhu Lin, & Matteo Oreste Ingaramo*
- Analysis of the examination methods of Gardner's intelligences in the digital environment** 444  
*Gréta Ábrahám*
- Teachers' perceptions and intentions about integrating computational thinking into science instruction** 449  
*Ayodele Abosede Ogegbo*
- “Soil” in basic education in São Paulo, Brazil: Strategies for skill development and construction of geoethical values** 454  
*Hermom Reis Silva, Rosely Aparecida Liguori Imbernon, & Clara Vasconcelos*
- Could I be more satisfied? The relationship between online learning activities, satisfaction, and agreeableness personality type** 459  
*Orit Baruth, & Anat Cohen*

<b>Teachers' perception of digital game-based learning in early childhood education in rural schools in Ghana</b>	<b>464</b>
<i>Prince Kelvin Owusu, &amp; Irene Govender</i>	
<b>Ordinary differential equations in a mathematical modeling context</b>	<b>469</b>
<i>Amábile Mesquita, &amp; Celina Abar</i>	
<b>Virtual Reality in speech sound disorders therapy</b>	<b>474</b>
<i>Carolina Bodea Hațegan, Dorina Talaș, &amp; Raluca Trifu</i>	
<b>Teach Industrial Design students how to make physical products</b>	<b>479</b>
<i>Miguel Terroso</i>	
<b>Research paths and future trends of online teaching quality in higher education: A bibliometric and content analysis</b>	<b>484</b>
<i>Xinzhu Wu, &amp; Yan Xu</i>	
<b>Designing rubrics to assess pedagogical knowledge of prospectives teachers</b>	<b>489</b>
<i>Verónica Yáñez-Monje, Marian Aillón-Neumann, Marcela Palma-Troncoso, &amp; Cecilia Maldonado-Elevancini</i>	
<b>Technostress in distance learning: The POSITIVE LEARN project</b>	<b>494</b>
<i>Dimitra Pappa, Jan Pawlowski, Kati Clements, &amp; Sofoklis Sotiriou</i>	
<b>Jumping out of the comfort zone: Promoting collaborative learning through music and movement course in higher education</b>	<b>499</b>
<i>Katy Jeong Cheng Ho Weatherly</i>	
<b>Cultivating Collaborative Online International Learning (COIL) experiences for undergraduate health educators in the classroom</b>	<b>504</b>
<i>Jessica Maureen Harris, &amp; Minjung Seo</i>	
<b>Gamification in the Portuguese language subject: A review of two e-learning platforms</b>	<b>509</b>
<i>Madalena Gomes, Ana Catarina Silva, &amp; Jorge Pereira</i>	
<b>Ability grouping and inclusive practice in foreign language teaching</b>	<b>514</b>
<i>Katarína Vančíková, &amp; Dana Hanesová</i>	
<b>Creative thinking of children with ADHD and their performance in language and mathematics</b>	<b>519</b>
<i>Kalliopi Trouli, &amp; Antonia Gousiou</i>	
<b>Technology integration in grade 10 Life Sciences teaching and learning</b>	<b>524</b>
<i>Sam Ramaila</i>	
<b>Storytelling as an interdisciplinary strategy in geoscience education</b>	<b>528</b>
<i>Isabel Teixeira, Dulce Lima, &amp; Clara Vasconcelos</i>	
<b>A systematic literature review on multicultural mentoring research for students with migrant backgrounds</b>	<b>533</b>
<i>Kim EunHui, &amp; Kim YoungSoon</i>	
<b>DIVEMIX: Perceptions of mixed reality in secondary education in Spain</b>	<b>538</b>
<i>Verónica Marín, Begoña E. Sampedro, Esther Vega, &amp; Ana B. López</i>	
<b>MOOCs creation and management methods: Exploring the design approach of a MOOC on European history and culture</b>	<b>543</b>
<i>Roberta Pireddu</i>	

<b>Changes of teacher-student/students communication in study process: Context of remote teaching / learning</b>	<b>548</b>
<i>Rasa Pocevičienė</i>	
<b>Multicultural perspectives of L2 learning</b>	<b>553</b>
<i>Gaetano Di Napoli, Massimiliano Schirinzi, &amp; Maria Garro</i>	
<b>Using immersive technologies to enhance student learning outcomes in clinical sciences education and training</b>	<b>558</b>
<i>Richard Kalunga, &amp; Fatma Elshobosky</i>	
<b>Improving STEM access with a collaborative 3D/VR design lab</b>	<b>561</b>
<i>Paul Sparks, &amp; Valerie Schmitz</i>	
<b>The contribution of project based-learning in the development of students' skills in senior high school</b>	<b>566</b>
<i>Katerina Kasimatis, Eleni Bekiari, &amp; Vivi Delikari</i>	
<b>Artificial Intelligence chatbots – A help or hindrance to computer science education</b>	<b>571</b>
<i>Paul Sage</i>	
<b>Valid but not (too) reliable? Discriminating the potential of ChatGPT within higher education</b>	<b>575</b>
<i>José L. González-Geraldo, &amp; Leticia Ortega López</i>	
<b>Experiential pedagogical model for teaching management and leadership in higher education</b>	<b>580</b>
<i>Jonna Käpylä, &amp; Miikka Palvalin</i>	
<b>Gamification app “Expresate con ciencia” boosts utility and acceptance for health science students</b>	<b>585</b>
<i>Lorenzo Rivas-Garcia, Lara Crespo-Antolín, Cristina Moreno Amezcua, Juan Llopis, &amp; Cristina Sánchez-González</i>	
<b>Exploring the change to remote learning in Nepal</b>	<b>589</b>
<i>Paul Sparks, &amp; Jeff Lee</i>	
<b>Identifying patterns of tactile exploratory behaviors in children with vision impairment and multiple disabilities</b>	<b>594</b>
<i>Maria Papazafiri, &amp; Vassilis Argyropoulos</i>	
<b>Multicultural and intercultural communication: New learning and teaching models</b>	<b>599</b>
<i>Rasa Pocevičienė</i>	
<b>Integrating sustainability into information and knowledge management curriculum</b>	<b>603</b>
<i>Jonna Käpylä</i>	
 <b><u>Organizational Issues</u></b>	
<b>The role of peace education in post-conflict zones of Cyprus' foreign language education policy</b>	<b>608</b>
<i>Merve Uysal, &amp; Çağda Kivanç Çağanağa</i>	
<b>Reducing access barriers, hiding learning barriers: An ethical (Kantian) critique of the open admissions model used in MOOCs</b>	<b>613</b>
<i>Louai Rahal</i>	



<b>Implementation of organizational models that promote pupil attendance and create social value? An interdisciplinary process study</b> <i>Katharina Jacobsson</i>	<b>618</b>
<b>Attempts towards alleviation of social injustices within South African universities</b> <i>Thasmai Dhurumraj, &amp; Sam Ramaila</i>	<b>623</b>
<b>Corporate university the light of the educational psychology in organizations: An experience report</b> <i>Victória Mabily Cavalin, Victória Trezza Cosenza Oliveira, Caroline de Windsor Gonçalves, &amp; Lucas Cavalin</i>	<b>628</b>
<b>Ecodidactics: An ecological educational perspective</b> <i>Raffaella C. Strongoli</i>	<b>633</b>
<b>Students perceptions about the influence of school environment on their academic performance in physics</b> <i>Ayodele Abosede Ogegbo</i>	<b>638</b>

## WORKSHOPS

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### ***Projects and Trends***

- Artificial Intelligence (AI) in higher education: Tool or trickery?** 645  
*Jeroen Lievens*
- 

- AUTHOR INDEX** 649