

EDU LEARN₂₀

12TH INTERNATIONAL CONFERENCE
ON EDUCATION AND NEW LEARNING
TECHNOLOGIES



CONFERENCE
PROCEEDINGS



EDULEARN₂₀

**12TH INTERNATIONAL CONFERENCE
ON EDUCATION AND NEW LEARNING
TECHNOLOGIES**

**CONFERENCE
PROCEEDINGS**

Published by
IATED Academy
iated.org

EDULEARN20 Proceedings
12th International Conference on Education and New Learning Technologies
July 6th-7th, 2020

Edited by
L. Gómez Chova, A. López Martínez, I. Candel Torres
IATED Academy

ISBN: 978-84-09-17979-4
ISSN: 2340-1117
V-1216-2020

Book cover designed by
J.L. Bernat

All rights reserved. Copyright © 2020, IATED

The papers published in these proceedings reflect the views only of the authors. The publisher cannot be held responsible for the validity or use of the information therein contained.

EDULEARN20 COMMITTEE AND ADVISORY BOARD

<i>Adam Chekour</i>	UNITED STATES	<i>Jose Luis Bernat</i>	SPAIN
<i>Agustín López</i>	SPAIN	<i>Joseph Walsh</i>	IRELAND
<i>Alexander Mikroyannidis</i>	UNITED KINGDOM	<i>Josipa Matotek</i>	CROATIA
<i>Amany Saleh</i>	UNITED STATES	<i>Juanan Herrero</i>	SPAIN
<i>Amparo Girós</i>	SPAIN	<i>Kathleen O'Sullivan</i>	IRELAND
<i>Ana Lucas</i>	PORTUGAL	<i>Koteshwar Chirumalla</i>	SWEDEN
<i>Ana Paula Lopes</i>	PORTUGAL	<i>Kurt Wilson</i>	UNITED KINGDOM
<i>Ana Tomás</i>	SPAIN	<i>Laura Zizka</i>	SWITZERLAND
<i>Anamarija Štefić</i>	CROATIA	<i>Leonor Silva de Mattos</i>	UNITED KINGDOM
<i>Andrea Molinari</i>	ITALY	<i>Lorena López</i>	SPAIN
<i>Andrew Youde</i>	UNITED KINGDOM	<i>Louise Robson</i>	UNITED KINGDOM
<i>Anemona Peres</i>	POLAND	<i>Luis Gómez Chova</i>	SPAIN
<i>Antonija Mitrovic</i>	NEW ZEALAND	<i>M^a Jesús Suesta</i>	SPAIN
<i>Antonio García</i>	SPAIN	<i>Manuel Gericota</i>	PORTUGAL
<i>Antonio Vieira de Castro</i>	PORTUGAL	<i>Maria Luisa Spreafico</i>	ITALY
<i>Boyan Bontchev</i>	BULGARIA	<i>Maria Porcel</i>	SPAIN
<i>Boza Tasic</i>	CANADA	<i>Marilyn Dono-Koulouris</i>	UNITED STATES
<i>Bozena Mamnova</i>	CZECH REPUBLIC	<i>Mario Mäeots</i>	ESTONIA
<i>Chang-Tik Chan</i>	MALAYSIA	<i>Marion Milton</i>	AUSTRALIA
<i>Chelo González</i>	SPAIN	<i>Martina Bode</i>	UNITED STATES
<i>Chiew Hong Ng</i>	SINGAPORE	<i>Maryam Rab</i>	PAKISTAN
<i>Cristina Sin</i>	PORTUGAL	<i>Meir Komar</i>	ISRAEL
<i>Danny Weyns</i>	BELGIUM	<i>Michelle Flood</i>	IRELAND
<i>David Martí</i>	SPAIN	<i>Miguel Peiró</i>	SPAIN
<i>Dieter Landes</i>	GERMANY	<i>Mohamed Zarouk</i>	PORTUGAL
<i>Eladio Duque</i>	SPAIN	<i>Monika Jakubiak</i>	POLAND
<i>Elaine Hoter</i>	ISRAEL	<i>Nathalie Vallès-Parlangeau</i>	FRANCE
<i>Elena Savova</i>	BULGARIA	<i>Nina Helander</i>	FINLAND
<i>Emma Zimbelmann</i>	GERMANY	<i>Norma Barrachina</i>	SPAIN
<i>Eti de Vries</i>	NETHERLANDS	<i>Orlanda Tavares</i>	PORTUGAL
<i>Eulalia Tramuns</i>	ITALY	<i>Peter Haber</i>	AUSTRIA
<i>Fausto Brevi</i>	ITALY	<i>Polona Gradišek</i>	SLOVENIA
<i>Filomena Soares</i>	PORTUGAL	<i>Radel Ben-Av</i>	ISRAEL
<i>Francisco José Perales</i>	SPAIN	<i>Rebecca Allen</i>	UNITED STATES
<i>Georgios Kouroupetroglou</i>	GREECE	<i>Remigijus Bubnys</i>	LITHUANIA
<i>Guy Meredith</i>	UNITED ARAB EMIRATES	<i>Sami Ammar</i>	CANADA
<i>Halil Guven</i>	GEORGIA	<i>Sandra Gomes</i>	PORTUGAL
<i>Hanna-Riitta Kymäläinen</i>	FINLAND	<i>Sean Lancaster</i>	UNITED KINGDOM
<i>Hasan Abu Rasheed</i>	GERMANY	<i>Sergio Pérez</i>	SPAIN
<i>Helen Reddy</i>	UNITED KINGDOM	<i>Soula Mitakidou</i>	GREECE
<i>Helen Williams</i>	IRELAND	<i>Stefano Lariccia</i>	ITALY
<i>Ignacio Ballester</i>	SPAIN	<i>Teemu Patala</i>	FINLAND
<i>Ignacio Candel</i>	SPAIN	<i>Teresa Cardoso</i>	PORTUGAL
<i>Ilana Lavy</i>	ISRAEL	<i>Thomas Rachfall</i>	GERMANY
<i>Ingēra Tomme-Jukēvica</i>	LATVIA	<i>Tunde Szecsi</i>	UNITED STATES
<i>Iván Martínez</i>	SPAIN	<i>Victor Fester</i>	NEW ZEALAND
<i>Jan Kucerik</i>	CZECH REPUBLIC	<i>Victoria Brennan</i>	UNITED KINGDOM
<i>Jana Bérešová</i>	SLOVAKIA	<i>Wayne Bailey</i>	UNITED KINGDOM
<i>Jane Davies</i>	MALAYSIA	<i>Wendy Gorton</i>	UNITED STATES
<i>Jaqueline Baxter</i>	UNITED KINGDOM	<i>William Rankin</i>	UNITED STATES
<i>Javier Domenech</i>	SPAIN	<i>Xavier Lefranc</i>	FRANCE
<i>Javier Martí</i>	SPAIN	<i>Xema Pedrós</i>	SPAIN
<i>Joanna Lees</i>	FRANCE	<i>Yazid Benchabane</i>	UNITED ARAB EMIRATES
<i>Jose F. Cabeza</i>	SPAIN	<i>Zuzana Kubincová</i>	SLOVAKIA

CONFERENCE TRACKS & SESSIONS

INNOVATIVE EDUCATIONAL TECHNOLOGIES

AI, Chatbots & Robots
Virtual & Augmented Reality
Social Media
Technology Enhanced Learning

DIGITAL TRANSFORMATION OF EDUCATION

Big Data & Smart Technologies
Digital Transformation
21st Century Skills
Programming & Coding

DIGITAL & DISTANCE LEARNING

Distance Education in COVID-19 Times
Challenges & Practices during COVID-19
Blended & Mobile Learning
e-Learning
MOOCs & OERs
LMS & VLEs

ACTIVE & STUDENT-CENTERED LEARNING

Gamification & Game-based Learning
Experiential Learning
Problem & Project-based Learning
Pedagogical Innovations
Soft Skills Development

STUDENT ASSESSMENT & MENTORING

Assessment & Evaluation
e-Assessment
Feedback on Learning
Mentoring & Tutoring

MULTICULTURALITY & INCLUSION

Multicultural Education
Diversity Issues
Special Educational Needs
Student Support & Bullying

EDUCATIONAL STAGES & LIFELONG LEARNING

From Pre-school to Secondary Education
University & Post-graduate Education
Life-long Learning

LEADERSHIP & TEACHERS DEVELOPMENT

ICT & Digital Skills
Professional Development of Teachers
Educational Management

QUALITY & IMPACT OF EDUCATION

Quality in Education
Challenges in Curriculum Design
Sustainability & Social Impact of Education
University-Industry Collaboration
Educational Policies & Internationalization

DISCIPLINE-ORIENTED SESSIONS

Architecture & Design
Engineering Education
Computer Science
Business Education
Health Sciences Education

LANGUAGE LEARNING AND TEACHING

Foreign Languages
Language Learning
Technology for Language Learning

STEM EDUCATION

Maths & Statistics
STEM Experiences

EDULEARN20 TABLE OF CONTENTS

A WEB ASSIGNMENT TO ENCOURAGE STUDENT-COMMUNITY COLLABORATIONS <i>G. Kontos</i>	1
BEST PRACTICES IN ONLINE TEACHING AND LEARNING <i>G. Kontos</i>	6
TRANSFORMING AN EDUCATIONAL MODEL BY TRAINING AND LEARNING COMMUNITIES <i>T. De Dios Alija</i>	11
VISUALIZATION IN GEOMETRY USING EDUCATIONAL VIDEOS <i>D. Velichová</i>	16
ARTIFICIAL INTELLIGENCE APPLICATION TECHNIQUES FOR DEEP ASSESSMENT OF MULTIPLE CHOICE EDUCATIONAL SYSTEMS <i>A. Elmessiry, M. Elmessiry</i>	26
CHILDREN'S PARTICIPATION AND BIOPHILIC DESIGN IN PRESCHOOL LEARNING ENVIRONMENTS <i>G. Ergunes Kutuk, D. Hasirci</i>	31
PLACE ATTACHMENT IN TURKISH COFFEEHOUSES: IMPLICATIONS FOR INTERIOR ARCHITECTURE EDUCATION <i>S. Ozbicer, D. Hasirci</i>	40
ASSESSMENT OF THE WEAK AND POWERFUL LEARNING OUTCOME OF REMOVABLE PARTIAL DENTURES USING AUTOMATED SOFTWARE AS A UNIVERSAL BENCHMARK TOOL <i>L. Abdulhadi, H. Mohammed, H. Al-Samawi</i>	50
FULLY AUTOMATED INTERACTIVE DIGITAL SYSTEM TO DESIGN METAL FRAMEWORK OF REMOVABLE PARTIAL DENTURES: SYSTEM SPECIFICATIONS AND APPLICATIONS IN TEACHING AND PATIENT MANAGEMENT <i>L. Abdulhadi, A. Mahmoud, H. Al-Samawi</i>	58
LIVING IN AN (IM)MATERIAL WORLD?: HIGHER EDUCATION ENCLOSURE AND DIGITAL DISPOSSESSION <i>H. Glover, H. Collins, F. Myers</i>	67
COMPETENCIES OF HIGHER MATHEMATICS AT RIGA TECHNICAL UNIVERSITY ENGINEERING HIGH SCHOOL <i>I. Volodko, S. Cernajeva, I. Eglite</i>	68
CROSSING OVER : PRACTITIONER TO ACADEMIC TRANSITIONS IN AN ONLINE BUSINESS AND LAW SCHOOL <i>J. Baxter, R. Harding</i>	74
STUDENTS' ALTERNATIVE CONCEPTIONS AND MISUNDERSTANDINGS WHEN LEARNING GEOMETRY. A SOUTH AFRICAN PERSPECTIVE <i>S.M. Chiphambo, N.N. Feza</i>	75
COORDINATION OF INDUSTRIAL ROBOTS UTILIZING PLC <i>C. Kondekar, A. Sergejev</i>	86
PERCEPTION OF ACCOUNTING ORGANISATIONS NEEDS AND THE ROLE OF HIGHER EDUCATION INSTITUTIONS <i>S. Leite, P. Oliveira</i>	87
ENGINEERING APPRENTICE WORKSHOP "A WORLD UNDER YOUR FEET": A STRATEGY TO PROMOTE ENGINEERING AMONG SECONDARY SCHOOL STUDENTS <i>J.I. López, M. Navarro, B. Alonso, C. Rad, J. López, I. Martín, J.M. Varona, M. Skaf, V. Ortega-López</i>	88
WORKSHOP DESIGN TO APPROACH ENGINEERING TO PRIMARY SCHOOL CHILDREN: "GROWING YOUR OWN ORGANIC GARDEN" <i>M. Navarro, J.I. López, B. Alonso, C. Rad, J. López, I. Martín, J.M. Varona, M. Skaf, V. Ortega-López</i>	93
COGNITIVE COMPUTING IN BIG DATA MANAGEMENT <i>S. Chowdhury</i>	100
COOPERATION BETWEEN THE UNIVERSITY AND INDUSTRY - THE BASIS FOR NEW TECHNOLOGIES AND EQUIPMENT <i>R. Brázda, A. Slíva</i>	103
HOW TO INNOVATE LIFT TECHNOLOGY IN COLLABORATION WITH STUDENTS AND INDUSTRY <i>R. Brázda, L. Hrabovský, A. Slíva</i>	109

CORRELATION BETWEEN PROGRAMMING AND RESEARCH SKILLS OF STUDENTS OF ELECTRIC POWER ENGINEERING PROGRAMMES	113
<i>F. Milano</i>	
DRAWBACKS OF USING SIMPLIFIED MODELS TO TEACH POWER SYSTEM ANALYSIS	121
<i>F. Milano</i>	
SOME STRATEGIES TO LEARN CORROSION IN UNIVERSITY: PARTICULAR CASE OF MARINE AND MARITIME ENGINEERING STUDENTS	130
<i>M.V. Biezma, D. Agudo</i>	
MICRO-SEMINARS AS AN INNOVATIVE METHODOLOGY FOR THE DEVELOPMENT OF UNDERGRADUATE AND POSTGRADUATE HIGHER EDUCATION PROGRAMS. A CASE STUDY	137
<i>J.V. López</i>	
HIGHER EDUCATION FOCUSED ON PORT MANAGEMENT IN EUROPE	144
<i>N. Cruz-Pérez, J.C. Santamarta, J. Rodríguez-Martín, F. Ioras, M. Bruccoleri</i>	
INCAMP: MASTER'S DEGREE IN THE CARBON NEUTRAL MANAGEMENT OF SPORT MARINAS	151
<i>N. Cruz-Pérez, J.C. Santamarta, J. Rodríguez-Martín, F. Ioras, M. Bruccoleri</i>	
EXAMINING THE USE OF ICT IN THE PROMOTION OF SCIENCE LEARNING AND SCIENCE LITERACY IN SELECTED RURAL SOUTH AFRICAN SCHOOLS	157
<i>N. Mtsi</i>	
EXPERIENCES IN THE DEVELOPMENT OF A SUSTAINABLE SCORECARD FOR ENTERPRISE SUSTAINABILITY COURSE	166
<i>R. Chalmeta, M. Mollar, G. Peris</i>	
INTEGRATING THE OBJECTIVES OF SUSTAINABLE DEVELOPMENT INTO TEACHING	171
<i>R. Chalmeta, M. Mollar, G. Peris</i>	
TEACHING STRATEGIES IN WRITING ENGLISH FIRST ADDITIONAL LANGUAGE BY ISIXHOSA BACKGROUND LEARNERS FROM RURAL PRIMARY SCHOOLS	176
<i>T. Mpiti, M. Mbodila</i>	
INCREASING MOTIVATION TO LEARN A FOREIGN LANGUAGE BY USING VIDEOS IN SCHOOL	184
<i>G. Ismagilova</i>	
COMMUNICATIVELY ORIENTED APPROACH IN TEACHING VOCABULARY FOR STUDENTS	190
<i>G. Ismagilova</i>	
STRENGTHENING THE CRITICAL THINKING COMPETENCE G15 USING SOCIAL MEDIA AND ITS ASSESSMENT BY CORUBRICS	197
<i>B. Urbano, D. Carpio, F. González-Andrés</i>	
AN ACTIVE B-LEARNING PROPAEDEUTIC COURSE ON TELECOMMUNICATIONS ENGINEERING FOR FRESH STUDENTS	204
<i>A. Pérez Yuste, J.A. Sánchez Fernández, F. Pescador Del Oso, J. Meneses Chaus</i>	
PROSPECTS FOR INTEGRATING ARTIFICIAL INTELLIGENCE AND NEW DIGITAL TECHNOLOGIES INTO TERTIARY EDUCATION	212
<i>O. Chertovskikh</i>	
ANALYSIS AND COMPARISON OF ACTIVE AGEING POLICIES IN THE UNITED KINGDOM AND SLOVAKIA	219
<i>M. Koricina</i>	
URBANONYMS AS THE SEMIOTIC SIGNS OF LANGUAGE TEACHING AND LEARNING	229
<i>R. Baranauskiene, I. Mickiene, S. Juzeleniene</i>	
LIFE IS CELEBRATION METAPHOR IN TEACHING MULTIMODALITY	236
<i>S. Sarkauskiene, S. Juzeleniene, R. Baranauskiene</i>	
RECOGNISING AND REWARDING TEACHING EXCELLENCE IN HIGHER EDUCATION USING AN EPORTFOLIO	244
<i>G.M. Velan, P. Polly</i>	
BUILDING MOTIVATION FOR MULTILINGUAL STUDENTS. CHALLENGES OF THE FUTURE	249
<i>G.A. Necula</i>	
PRACTICAL TRAINING FOR GRADUATES NEED TO APPLY FOR THE LABOUR MARKET FOR ENHANCING REGIONS SAFETY	257
<i>L. Mariš, M. Boroš, Z. Zvaková, M. Felcan</i>	

USING STATE-OF-THE-ART METHODOLOGICAL APPROACHES TO ENGAGE STUDENTS, IMPROVE SYNERGIES AND INCREASE CONTENT COMPREHENSION	262
<i>M. Docherty, K. Gaubinger</i>	
DEVELOPMENT OF STUDENTS' COMPUTATIONAL THINKING THROUGH CREATIVE DIGITAL STORYTELLING IN BLOCK-BASED PROGRAMMING ENVIRONMENT	272
<i>V. Voinohovska</i>	
EDUCATION 2030: ALIGNING SUSTAINABLE DEVELOPMENT GOALS (SDGS) TO AND FOR HIGHER EDUCATION	279
<i>L. Zizka, P. Varga</i>	
TEACHING CURRENCY: LEVERAGING ON PROSPECTS AND CHALLENGES OF THE 4TH INDUSTRIAL REVOLUTION (INDUSTRY 4.0) IN THE COLLEGES OF TECHNOLOGY IN UNITED KINGDOM	285
<i>K. Adenuga, O. Ogunduyile</i>	
IMPROVING FACULTY PEDAGOGY THROUGH USE OF ARTIFICIAL INTELLIGENCE-A STUDENT ENGAGEMENT FACILITATION TOOL	294
<i>M.S. Ahmed, P. Chunduri, S. Vivek</i>	
ANALYSIS OF PHYSICAL EDUCATION APPS FOR COOPERATIVE LEARNING THROUGH GAMIFICATION	295
<i>L. Iglesias Alcón, A. Torres-Toukoumidis, N. Medranda Morales</i>	
INTEGRATING PROBLEM BASED LEARNING WITH THE JIGSAW METHOD FOR TEACHING IN MANUFACTURING ENGINEERING	303
<i>C.J. Luis Pérez</i>	
TEACHING METAL FORMING USING ACTIVE LEARNING METHODS IN FUNDAMENTALS OF MANUFACTURING	308
<i>C.J. Luis Pérez</i>	
INVESTIGATING THE ROLE OF TECHNICAL SUPPORT IN THE ADOPTION OF E-ASSESSMENT IN INDIA	314
<i>K. Adenuga, R. Tripathi, S. Miskon</i>	
HEALTH-RELATED QUALITY OF LIFE AND EDUCATION - HUMANISTIC ACADEMIC APPROACHES	321
<i>D. Vankova</i>	
MARCH OF THE ROBOTS? ARTIFICIAL INTELLIGENCE (AI) IS PART OF THE MAINSTREAM IN UK EDUCATION. BUT WHY SHOULD ANYONE CARE?	328
<i>P. Atherton</i>	
PUBLIC HEALTH EVOLUTION AND EDUCATION IN BULGARIA - 20 YEARS LATER	329
<i>D. Vankova</i>	
HOW COURSE DESIGN CAN GUIDE TECHNOLOGY INTEGRATION IN BLENDED LEARNING ENVIRONMENTS	338
<i>N. Lopez</i>	
SOCIAL REPRESENTATIONS OF NON-TECHNICAL PART OF ENGINEERING EDUCATION	345
<i>N. Dubreta</i>	
PERCEPTIONS OF SCHOOL TEACHERS ON THE USE OF COLLABORATIVE TOOLS AT SCHOOL	355
<i>M. Nunes, A. Oliveira</i>	
TOWARDS BLENDED LEARNING IMPLEMENTATION IN THE EDUCATIONAL PROCESS FOR THE STUDENTS OF NON-LINGUISTIC SPECIALITIES IN SOUTH URAL STATE UNIVERSITY	363
<i>E. Kiriakova, I. Levina, E. Ponomareva, S. Sanochkina</i>	
DRIVE-X: A COLLABORATIVE MODEL FOR MAKING MOOCS	369
<i>H. Haugsbakken, I. Langseth</i>	
PARTICIPATORY DESIGN IN AN ONLINE INFORMATION LITERACY COURSE FOR HIGH SCHOOLS	381
<i>M. Cerny</i>	
THE POWER OF NUDGING FOR VIRTUAL LEARNING ENVIRONMENTS	391
<i>T. Wernbacher, A. Pfeiffer, S. Kriglstein, S. Bezzina</i>	
THE ROLE OF BLOCKCHAIN TECHNOLOGIES IN DIGITAL ASSESSMENT	395
<i>A. Pfeiffer, S. Bezzina, T. Wernbacher, S. Kriglstein</i>	
EMPLOYING CULTURALLY RESPONSIVE PEDAGOGY AND TECHNOLOGIES TO REFRAME DIVERSE TEAM WORK CHALLENGES AS COMMON AND IMPROVABLE	404
<i>S. Taylor, M. Ryan, L. Elphinstone</i>	

TEACHING BEHAVIORS AND COURSE DESIGN IN COMPETENCY BASED EDUCATION	414
<i>J. Bonner, L. Braunstein, L. Portolese</i>	
TEACHING MATHEMATICS SIMULTANEOUS AND QUADRATIC EQUATIONS USING JAVA PROGRAMMING LANGUAGE: ANOTHER POSSIBLE WAY OF UNDERSTANDING MATHEMATICS	418
<i>A. Dewa</i>	
LEARNER-CENTERED APPROACHES AS A FORM OF DEVELOPING ENGLISH PROFICIENCY AMONG LEARNERS FROM DISADVANTAGED BACKGROUND	430
<i>B. Makena</i>	
DO TEACHERS INTEND TO USE VIRTUAL ASSISTANTS? THE MODERATING EFFECT OF THE DIGITAL SKILLS AND THE AGE OF THE TEACHER	438
<i>R. Chocarro, M. Cortinas, G. Marcos</i>	
STUDENTS` INTEREST IN TECHNICAL STUDY PROGRAMS AND TECHNICAL OLYMPIAD: INVESTIGATION OF THE INTERRELATION	439
<i>A. Hašková, J. Šírka</i>	
PERSPECTIVES ON PRESCHOOL CURRICULUM IN PORTUGAL	443
<i>N. Carrachás, F. Seabra, M. Abelha</i>	
INNOVATION AND EXTERNAL EVALUATION OF NON-HIGHER EDUCATION SCHOOLS IN PORTUGAL: A STUDY BASED ON EXTERNAL EVALUATION REPORTS	451
<i>F. Seabra, S. Henriques, M. Abelha, A. Mouraz</i>	
SUSTAINABILITY, EDUCATION AND INTERIOR DESIGN- INTERRELATED ASPECTS: THE CASE OF CYPRUS	461
<i>P. Lapithis, K. Ioannou Kazamia</i>	
AN ANALYSIS ON GENDER EQUALITY IN THE MARINE, MARITIME AND NAUTICAL ENGINEERING STUDIES IN CANTABRIA UNIVERSITY, SPAIN	471
<i>M.V. Biezma, D. Agudo, M.A. Andrés</i>	
OPPORTUNITIES AND CHALLENGES FOR EXTENDED REALITY TECHNIQUES IN HIGHER EDUCATION	481
<i>N. Ganz, C. Lecon</i>	
LITERATURE REVIEW ON THE USE OF MEDIA IN FINANCIAL EDUCATION	491
<i>A. Zureck</i>	
DEVELOPING DIGITAL AUTHORIAL EDUCATIONAL MATERIAL: THE TRANSFORMATION OF THE CONCEPT OF TEACHING	497
<i>L. de Lima, R. Carlos Loureiro, B. Collyer Aguiar</i>	
ARCHITECTURAL EDUCATION: THEMATIC RESEARCH-ORIENTED ASSIGNMENTS IN DESIGN STUDIOS	507
<i>K. Kristianova, A. Jaszczak</i>	
TEACHING INCLUSIVE DESIGN OF PUBLIC SPACES	512
<i>K. Kristianova, A. Jaszczak</i>	
SCALING SYSTEM IMPLEMENTATION STUDY OF THE STUDENTS MARKS IN SPANISH ENGINEERING STUDIES	517
<i>J.A. Auñon, S. Merino, D.J. Maldonado, F. García-Sánchez, L. Sevilla, G. Castillo, M. González</i>	
CRITICALLY INTRODUCING AN ONLINE PEER REVIEW CAMPUSMOODLE AUDIT TOOL (CMAT) PROJECT	525
<i>F. Work, S. Luders, K. Goodhand, W. Eboh</i>	
KYRGYZ STUDENTS' WILLINGNESS AND EXPECTATIONS TO UNDERTAKE JOINT INTERNATIONAL MASTER'S STUDIES IN COMPUTER SCIENCE	535
<i>M. Milosz, N. Israilova, E. Milosz</i>	
3D INFORMATION TECHNOLOGIES IN CULTURAL HERITAGE PRESERVATION AND POPULARIZATION - A SERIES OF SEMINARS FOR MUSEOLOGISTS MADE BY COMPUTER SCIENTISTS	543
<i>M. Milosz, J. Montusiewicz, J. Kesik</i>	
ANALYSING TEACHERS, SCHOOL ADMINISTRATORS AND EDUCATION INSPECTORS OPINIONS ACCORDING TO TURKEY'S EDUCATION VISION 2023 ABOUT THE APPOINTMENT AND TRAINING OF SCHOOL ADMINISTRATORS	550
<i>M. Öztürk, A.I. Gümüşeli</i>	
TEACHING CONTROL THEORY AND ARTIFICIAL INTELLIGENCE CONCEPTS USING A METHODOLOGY BASED ON IMPLEMENTATION OF SIMPLE PARKING STRATEGIES FOR CAR-LIKE ROBOTS	556
<i>C. Buiiu, E. Arghire</i>	

HOW TO ENHANCE STUDENTS' INTEREST IN TECHNOLOGY STUDY BRANCHES	561
<i>P. Kuna, A. Hašková, M. Palaj, M. Skačan</i>	
TO WHAT EXTENT DOES A BLENDED "E-LEARNING INDUCTION" PROGRAMME FOR THE NEW ACADEMICS CONTRIBUTE TOWARDS BUILDING COMMUNITIES OF PRACTICE IN A HIGHER EDUCATION INSTITUTE	567
<i>S. Luders</i>	
CREATIVITY, REFLECTION AND CRITICAL THINKING: THE PORTFOLIO IN DEVELOPMENTAL PSYCHOLOGY	577
<i>M.C. Blanco-Gandía, N. Sánchez-Pérez, M.P. García-Pardo, V.A.V. Blanco-Gandía, S. Montagud-Romero</i>	
EDUCATION BLOGS: A COMPLETE AND COMPETENT TEACHING-LEARNING MODEL	581
<i>S. Montagud-Romero, J.V. Ferrandis-Domingo, G. Montagud-Romero, M.C. Blanco-Gandía</i>	
EXPLORING THE INFLUENCE OF TEACHER BIOGRAPHY IN PRE-SERVICE PHYSICAL EDUCATION TEACHER EDUCATION	585
<i>W. Barber, W. Walters, C. Temertzoglou</i>	
EXAMINING THE "RESILIENCE AND GRIT" BEHAVIOURS, HABITS AND ATTITUDES OF PRE-SERVICE TEACHERS	591
<i>W. Barber, I. Brown, W. Walters</i>	
A JAVA APPLICATION FOR THE GENERATION OF RANDOMLY SELECTED BODIES	596
<i>N. Charitos, E. Papaioannou</i>	
TEACHING GREEN ANALYTICAL CHEMISTRY PRINCIPLES FROM A PRACTICAL APPROACH	604
<i>C. Ortega-Zamora, J. González-Sálamo, C. Hernández-Sánchez, M.Á. González-Curbelo, J. Hernández-Borges</i>	
DEVELOPING ONLINE COURSES THROUGH UNIVERSITY PROFESSIONAL PARTNERSHIPS	613
<i>W. Barber, R. Van Oostveen, E. Childs, D. McGuckin, S. Vohra</i>	
HOW TO FOSTER A SIGNIFICANT CONNECTEDNESS WITH NATURE IN CHILDREN THROUGH THE QUALITY ORGANIZATION OF CHILDREN'S LEISURE TIME AND THE USE OF ICT IN SCHOOL?	621
<i>D. Anđić, P. Pejić Papak, J. Mezak</i>	
EVIDENCE ON THE EFFECT OF THE FLIPPED CLASSROOM ON STUDENTS' ACHIEVEMENT AND PERCEPTIONS IN A HIGHER EDUCATION CONTEXT	630
<i>M. Cladera</i>	
PREPARING TEACHER EDUCATORS FOR LANGUAGE-ORIENTED SCIENCE EDUCATION: DESIGN AND IMPACT OF A PROFESSIONAL DEVELOPMENT PROGRAM	636
<i>A. Hotze, M. Gijzel, M. Vervoort, S. Peters, A. Post</i>	
RESPECTING THE IDENTITY OF A CHILD WITH A DISABILITY: WHAT CAN PARENTS, DOCTORS AND EDUCATORS DO?	644
<i>I. Baranauskienė</i>	
THE IDEAS OF BAKHTIN FOR ARCHITECTONICS OF QUALITATIVE RESEARCH IN THE CONTEXT OF DISCOURSE ANALYSIS	651
<i>I. Baranauskienė</i>	
(UN)HAPPY CHILD IN THE WHIRLPOOL OF MODERN SOCIETY - MISCONCEPTION OR TRUTH	658
<i>T. Kokanović</i>	
RELATED PROFESSIONS AS A TOOL TO DEVELOP SOCIAL ADAPTABILITY OF PEOPLE WITH COGNITIVE IMPAIRMENT IN THE CONTEXT OF 21ST CENTURY DYNAMIC CHANGES	665
<i>B. Lanková, L. Zilcher</i>	
INFORMATION PORTAL FOR MOBILE LEARNING AND MOBILE ACCESS TO LIBRARY SERVICES AND RESOURCES: NEW RESEARCH PROJECT	669
<i>E. Tsvetkova, S. Denchev, I. Peteva</i>	
FUTURE TEACHERS WHO THINK CRITICAL ARE LESS PRONE TO UNFOUNDED BELIEFS	676
<i>E. Ballova Mikuskova</i>	
EMERGING MOBILE AND TABLET TECHNOLOGIES IN EDUCATION: ACCESS TO LIBRARY SERVICES AND RESOURCES	681
<i>E. Tsvetkova, R. Manolova, K. Planska-Simeonova</i>	

NEW EDUCATIONAL TRENDS FOR MEDIA LITERACY AND THE PREVENTION OF FAKE NEWS	691
<i>E. Zdravkova, S. Yordanova, K. Planska-Simeonova</i>	
LESSONS LEARNED IN THE IMPLEMENTATION OF THE FIRST DEGREE-APPRENTICESHIP IN INFRASTRUCTURE ASSET MANAGEMENT IN NEW ZEALAND	697
<i>J. Mackay, H. Cadzow</i>	
FORMATION OF LEADERSHIP POSITIONS AND TRUST IN HIGHER EDUCATION	706
<i>I. Pavlova, D. Stoyanova, M. Pavlova, R. Yotova</i>	
INNOVATIVE INFORMATION UNIVERSITY ENVIRONMENT, A FACTOR FOR BUILDING A POSITIVE IMAGE OF EDUCATIONAL INSTITUTIONS	710
<i>I. Pavlova, S. Denchev, S. Tsekova, M. Pavlova</i>	
HOW TO ENCOURAGE CHILDREN'S CONNECTEDNESS TO NATURE BY OUTDOOR LEARNING OF CHILDREN IN CROATIAN AND SLOVENIAN SCHOOLS?	714
<i>M. Pečar, D. Anđić, I. Hergan, D. Skribe Dimec, J. Pavlin</i>	
TRAINING AND DEVELOPMENT IN SMALL AND MEDIUM-SIZED ENTERPRISES: CHALLENGES AND CHANGES TO HUMAN RESOURCE MANAGEMENT	724
<i>P. Novo Melo, C. Machado</i>	
THE ROLE OF MIXED REALITY IN THE EDUCATION AND PROMOTION OF CULTURAL AND HISTORICAL HERITAGE	726
<i>I. Peteva, I. Trenchev, K. Bosakova, S. Dimitrova</i>	
THE APPLICATION OF OBJECT-ORIENTED PROGRAMMING AND GAME ENGINE TO PROMOTE CULTURAL AND HISTORICAL HERITAGE	733
<i>I. Peteva, I. Trenchev, M. Traykov, R. Mavrevski</i>	
SCHOOLING WITH NATURE, BETWEEN PAST AND PRESENT	741
<i>F. Bertolino, M. Guerra</i>	
THE BOND BETWEEN CREATIVITY AND OUTDOOR EDUCATION	748
<i>F.V. Villa, M. Guerra</i>	
EDUCATION FOR A WORLD DISRUPTED	756
<i>C. Cheers, S. Chen</i>	
PROFESSIONAL SOCIALIZATION OF BULGARIAN TEACHERS IN MULTICULTURAL CLASSES	763
<i>N. Gerdzhikova</i>	
EDUCATION AND TRAINING IN CYBER/INFORMATION SECURITY	768
<i>K. Halouzka, L. Burita</i>	
PERCEIVED NEW PROFESSIONALISM OF BULGARIAN TEACHERS WORKING IN PRIMARY AND MULTICULTURAL SETTINGS	778
<i>N. Gerdzhikova, E. Mihaylova</i>	
GREAT: GRINDING RESEARCH ANALYSIS TOOL DEVELOPED BY STUDENTS AND RESEARCHERS WITH REAL INDUSTRIAL APPLICATION	784
<i>L. Godino Fernández, I. Pombo Rodilla, J.A. Sánchez Galíndez</i>	
UNIVERSITY OF THE BASQUE COUNTRY AS PART OF THE BASQUE DIGITAL INNOVATION HUB	792
<i>L. Godino Fernández, I. Pombo Rodilla, J.A. Sánchez Galíndez, R. Lizarralde</i>	
CASE STUDY OF A PROJECT-BASED LEARNING EXPERIENCE AT THE POLYTECHNIC OF VISEU, PORTUGAL	800
<i>V. Delplancq, S. Amante, C. Amaro Costa, A. Costa Lopes, E. Coutinho, S. Fidalgo, R. Gillain, P. Lopez, I. Oliveira, J. Pereira, S. Relvas, P. Roush</i>	
USING PERSUASIVE COMMUNICATION MODEL TO ENHANCE STUDENTS' INTEREST, LEARNING OUTCOMES AND PARTICIPATION IN CLASSROOM DIALOGUE IN BASIC SCIENCE IN TARABA STATE, NIGERIA	807
<i>C. Audu</i>	
TEACHING INNOVATION PROJECT AIMED AT IMPROVING STUDENTS' SELF-EFFICACY, ANXIETY AND PERFORMANCE TOWARDS THE COMPLETION OF THEIR MASTER THESIS	816
<i>S. Collado, C. Fidalgo, R. Rodríguez-Rey</i>	
IMPACT OF THE INCLUSION OF ONLINE PRACTICAL ACTIVITIES IN THE SUBJECT PSYCHOLOGICAL ASSESSMENT	817
<i>R. Rodríguez-Rey, S. Collado, C. Fidalgo</i>	
COOPERATIVE LEARNING BASED ON SIMULATION OF SCIENTIFIC CONGRESSES	818
<i>J. Moreno-Fernandez, J. Ochoa, M. Gómez-Guzmán, J. Diaz-Castro</i>	

INNOVATION IN TUTORSHIP: COOPERATION BETWEEN EXPERIENCED AND BEGINNERS UNIVERSITY PROFESSORS	824
<i>J. Moreno-Fernandez, J. Ochoa, M. Gómez-Guzmán, J. Diaz-Castro</i>	
PUBLIC SPEAKING: AN EXPERIENCE AT THE UNIVERSITY OF CADIZ	829
<i>L. Bares Lopez, M. Jimenez Garcia</i>	
MICRO-CREDENTIALING THROUGH OPEN BADGES IN THE VET CONTEXT	833
<i>L. Sommaruga, N. Catenazzi, K. De Angelis</i>	
A RESEARCH PROJECT FOR UNDERGRADUATE STUDENTS: INTRODUCTION TO SUSTAINABLE CHEMISTRY	840
<i>B. Socas-Rodríguez, Á. Santana-Mayor, R. Rodríguez-Ramos, M.Á. Rodríguez-Delgado</i>	
BRINGING SCIENCE TO SECONDARY SCHOOL: A MOTIVATING STRATEGY INVOLVING PHD STUDENTS	850
<i>B. Socas-Rodríguez, R. Rodríguez-Ramos, Á. Santana-Mayor, M.Á. Rodríguez-Delgado</i>	
EXPERIENCES ON TRANSVERSAL COMPETENCES IN HIGHER EDUCATION: THE CASE OF COMPETENCE DEVELOPMENT PROGRAMS	860
<i>P. Novo Melo, C. Machado</i>	
OPEN EDUCATIONAL RESOURCES' (OER) AWARENESS IN SECONDARY EDUCATION: EXPERIENCES AND LESSONS LEARNED FROM A COURSE DEDICATED TO OER	861
<i>I. Otero-González, D. Pantazatos, M. Grammatikou, D. Docampo</i>	
CHILDREN'S PARTICIPATION IN THE CREATION OF LIVING SPACE IN THE INSTITUTION OF EARLY AND PRESCHOOL EDUCATION	869
<i>L. Vujičić</i>	
APPLICATION OF ACTIVE TEACHING METHODOLOGIES IN THE HUMAN NUTRITION AND DIETETICS DEGREE	879
<i>I. Milton-Laskibar, M.P. Portillo Baquedano</i>	
PROCEDURE TO INTRODUCE THE INTEGRAL CONCEPT IN A PHYSICS COURSE FROM A MEANINGFUL LEARNING PERSPECTIVE	880
<i>J.M. Bergues, D. Acebes de la Arada</i>	
THE HUNGER GAMES AND THE GIVER: A BRIEF ANALYSIS OF DYSTOPIAN NOVELS THROUGH THE MULTICULTURAL EDUCATION LENS	885
<i>L. Jones</i>	
FACEBOOK AND BULGARIAN LIBRARIES: THE CHALLENGES OF MODERN INFORMATION ENVIRONMENT	890
<i>P. Mukanova, S. Eftimova, K. Mincheva</i>	
PERSONALIZED EDUCATION: ORIGINS, CHARACTERISTICS AND TECHNOLOGY OF USE	899
<i>T. Lopatukhina, E. Egorova, N. Bulankina, O. Mishutina</i>	
A BLENDED LEARNING MODEL IN HIGHER EDUCATION: RESULTS FROM A PILOT STUDY	905
<i>E. Peñalosa</i>	
THE ROLE, USAGE AND REPRESENTATION OF SOCIAL NETWORKS AMONG ELEMENTARY SCHOOL STUDENTS, FROM 5TH TO 8TH GRADE	911
<i>L. Tepes Golubic, N. Peran, D. Zadro, I. Halilovic</i>	
APPLICATION OF INNOVATIVE TEACHING TOOLS IN THE TEACHING-LEARNING PROCESS OF OCCUPATIONAL MEDICINE IN TWO DIFFERENT SPANISH UNIVERSITIES: EXPERIENCES AND OUTCOMES	916
<i>B. Abecia, M. Bolea, I. Diana, J.L. Bernal, M.A. Lopez Verdejo, B. Martínez-Jarreta</i>	
INCREASING ELEMENTARY SCHOOL STUDENT INTENSIVE READING SKILLS BY SPIDERMAN MODEL	921
<i>A. Suriansyah, R. Amelia, N. Ngadimun, R. Purwanti</i>	
LEARNING ENGLISH USING "DAMPRAK" GAME IN EARLY CHILDHOOD EDUCATION, BANJARMASIN SOUTH KALIMANTAN INDONESIA	928
<i>A. Aslamiah, R. Purwanti, N. Ngadimun, N. Noorhapizah, A. Suriansyah, R. Amelia</i>	
CASE METHOD IN ACCESSING STUDENTS WITH LIMITED HEALTH OPPORTUNITIES TO ADAPTIVE SPORTS	936
<i>G. Baturkina, T. Budyakova, G. Nizhnik</i>	
DIGITAL NATIVES OR DIGITAL REFUGEES? PREVENTING CONFLICTING SELF-EFFICACY IN THE DIGITALIZED WORKPLACE	940
<i>S. Lopes de Oliveira, L. Oliveira, J. Fisher Neves</i>	

AN AFFECTIVE, INTELLIGENT, TUTORING SYSTEM FOR PASSIVE HOUSE NEUROMARKETING	946
<i>A. Kaklauskas, A. Binkyte-Veliene, I. Vetloviene, D. Skirmantas, A. Kuzminskė</i>	
FACTORS INFLUENCING THE ADOPTION OF E-LEARNING IN EDUCATIONAL AND CORPORATE SECTORS	955
<i>S.S. Jabeen, Z. Sadique</i>	
PROGRAMME FOR EUROPEAN COOPERATING STATES (PECS): PROJECT SPACE IMAGE PROCESSING (SIP)	964
<i>J. Sužiedėlytė Visockienė, E. Tumelienė, I. Daugėla, J. Kučienė</i>	
A WAY TO UNDERSTAND THE SOLID-STATE CHEMISTRY FOR HIGH LEVEL EDUCATION STUDENTS: THE CASE OF A CERAMIC PIGMENT	974
<i>S. Torresi, A. Bou-Gil, M. D'Anna, P. Escámez-Gutiérrez, N. Peña-Recuenco, S. Chouli, P. Serna-Gallén, H. Beltrán-Mir, E. Cordoncillo</i>	
ESCAPE ROOM: HOW MOTIVATION IMPROVES THE LEARNING PROCESS	982
<i>M.A. Galindo, C. R. Maldonado, M.E. García-Rubiño, A. Lorente-Macías, A. Orte, R.M. Sánchez-Martín, A. Matilla-Hernández, M.J. Pineda de las Infantas Villatoro, J. Niclós-Gutiérrez, A. Domínguez-Martín</i>	
ADVANCED MULTIMEDIA IMPLEMENTATION OF CIRCULAR ECONOMY PILLS IN THE CLASSROOM, FOSTERING MULTIDISCIPLINARY, COLLABORATIVE LEARNING AND PROFESSIONALIZATION	988
<i>M.A. Marco-Fondevila, S. Scarpellini, P. Portillo, E.M. Llera, I. Zabalza, L.M. Marín, F. Llena, J. Valero</i>	
INSPIRATION LEADS TO ASPIRATION: IMPROVING CHEMISTRY LITERACY FOR LEARNERS WITH A LOW SOCIO-ECONOMIC STATUS	997
<i>A. Mallaburn, L. Seton, V. Brennan</i>	
WORK-ORIENTED PROJECT LEARNING IN THE CONTEXT OF MASTER'S LEVEL SERVICE DESIGN EDUCATION	998
<i>S. Kauppinen, S. Luojus</i>	
THE ROLE OF GAME DEVELOPERS IN A COLLABORATIVE PEDAGOGICAL GAME DESIGN	1008
<i>A. Saggah, A. Atkins, R. Campion</i>	
THE RELATIONSHIP BETWEEN LEADERSHIP, MOTIVATION AND JOB ENGAGEMENT	1015
<i>I. Prudnikova, V. Prudnikovs</i>	
DISABLED UNIVERSITY STUDENTS: AN EXPLORATORY STUDY OF A SUPPORT PROGRAM IN A SPANISH UNIVERSITY	1022
<i>Á. Iglesias</i>	
LAUNCHING A STEM ONLINE GRADUATE PROGRAM: LESSONS LEARNED ON FOSTERING STUDENT ACTIVE LEARNING AND SUCCESSFUL OUTCOMES	1026
<i>D. Kliger</i>	
EFFECTIVE DIGITAL TRANSFORMATION IN THE CONTEXT OF HIGHER EDUCATION	1027
<i>O. Vindača, V. Ľubkina, I. Žogla, I. Prudnikova</i>	
PREBRIEFING AS A LEARNING TOOL IN PHYSIOTHERAPY	1037
<i>A. Baño-Alcaraz, R. Martín-San Agustín, A. Escriche-Escuder</i>	
CLINICAL SIMULATION IN PHYSIOTHERAPY	1043
<i>A. Baño-Alcaraz, R. Martín-San Agustín, A. Escriche-Escuder</i>	
EXPERIENCES AND OUTCOMES IN FLIPPED CLASSROOM TEACHING OF A LARGE UNDERGRADUATE PHYSICS-ENGINEERING CLASS	1048
<i>C. Rodríguez, A. Kolomenskii, H. Schuessler</i>	
EXTERNAL FINANCING FOR RESEARCH IN PUBLIC HIGHER EDUCATION INSTITUTIONS IN MEXICO CITY	1055
<i>R.A. Gómez Ortiz, A. Ramos Trejo, M.F. Trejo Carrillo</i>	
PSYCHOMOTOR SKILLS OF PRIMARY SCHOOL PUPILS IN THE TECHNOLOGY SUBJECT IN THE SLOVAK REPUBLIC	1065
<i>G. Bánesz, E. Felixová, D. Lukáčová</i>	
COMPETENCES OF VET TEACHERS IN DUAL EDUCATION	1071
<i>D. Lukáčová, D. Zmeková, G. Bánesz</i>	
THE IMPACT OF JEWISH-ARAB INTERCULTURAL AND EDUCATIONAL ENCOUNTERS: QUALITATIVE AND QUANTITATIVE PERSPECTIVES	1078
<i>B. Mollov, C. Lavie</i>	

PEDAGOGICAL RESEARCH ON THE USE OF MIND MAPS IN TEACHING LITERATURE	1083
<i>M. Dushkova, S. Tsankov</i>	
THE PORTFOLIO AS A NEW INDICATIVE TOOL FOR STUDENT TEACHERS' EXTRACURRICULAR ACTIVITIES	1091
<i>M. Dushkova, V. Radeva, T. Borisova</i>	
POPULARIZATION OF MATHEMATICS THROUGH GEOCACHING	1101
<i>L. Honzík, J. Frank</i>	
USING OF NATURAL SCIENCE KNOWLEDGE IN TEACHING MATHEMATICS AT ELEMENTARY SCHOOL	1110
<i>J. Frank, L. Honzík, Š. Pěchoučková, L. Šiková</i>	
EFFECT OF A GAMIFIED EDUCATION INTERVENTION WITH KAHOOT ON THE LEVELS OF ABSENTEEISM FROM THE DEGREE IN PHYSIOTHERAPY	1120
<i>A. Escriche-Escuder, R. Martín-San Agustín, A. Baño-Alcaraz, J. Casaña</i>	
EFFECT OF THE USE OF STANDARISED CLINICAL CASES VERSUS SIMULATED CLINICAL CASES IN THE ASSIMILATION OF SPECIFIC CONCEPTS AND SKILLS IN THE DEGREE IN PHYSIOTHERAPY	1124
<i>A. Escriche-Escuder, R. Martín-San Agustín, A. Baño-Alcaraz, M. Sánchez-Barbadora</i>	
PHYSIOTHERAPY DEGREE STUDENTS' PERCEPTION OF THE IMPORTANCE OF LEARNING HOW TO READ SCIENTIFIC ARTICLES	1129
<i>R. Martín-San Agustín, A. Escriche-Escuder, B. Tronchoni-Crespo, A. Baño-Alcaraz, J. Benítez-Martínez</i>	
PHYSIOTHERAPY DEGREE STUDENTS' PERCEPTION OF THE EFFECT OF GAMIFIED LEARNING THROUGH THE KAHOOT TOOL IN UNDERSTANDING, ATTENTION, AND CONTENT INTEREST	1133
<i>R. Martín-San Agustín, A. Escriche-Escuder, B. Tronchoni-Crespo, A. Baño-Alcaraz, M. Sánchez-Barbadora</i>	
CULTURE OF THE EDUCATIONAL INSTITUTION AND THE PROFESSIONAL DEVELOPMENT OF PRESCHOOL TEACHERS: DYNAMISM AND INTERDEPENDENCE TOWARDS THE IMPROVEMENT OF EDUCATIONAL PRACTICE	1138
<i>A. Čamber Tambolaš, L. Vujičić</i>	
DIABETES MELLITUS AND NURSES' ROLE IN QATAR: CHALLENGES FOR NURSING EDUCATION	1149
<i>Z. Schuessler</i>	
TESTING THE RELATIONSHIP BETWEEN TEAM EMOTIONAL INTELLIGENCE AND SATISFACTION IN PROJECT TEAMS	1153
<i>S. Ortiz-Bonnin, C. Ramis, M.I. Montañez-Juan., M.A. Manassero-Mas, M.E. García-Buades, F. Rejón-Guardia</i>	
PERSONALITY OF STUDENTS, THEIR MOTIVATION AND ACADEMIC ACHIEVEMENT IN LEARNING FOREIGN LANGUAGE	1160
<i>R. Karasova, J. Uhlarikova</i>	
SELF-EFFICACY, PERCEIVED SUCCESS OF TEACHERS AND PUPILS' SCHOOL CONNECTEDNESS	1167
<i>L. Bafiova, J. Uhlarikova</i>	
COMPARING LEARNING OBJECTS FOR EFFECTIVE LEARNING IN MATHEMATICS	1173
<i>L. Descalço, P. Carvalho</i>	
THE PARTNERSHIP WITH PARENTS OF PUPILS IN INCLUSIVE EDUCATION	1180
<i>E. Zezulková, K. Janků</i>	
DIRECT SUPPORT OF THE TEACHER IN THE CONTEXT OF PRIMARY PEDAGOGICAL INTERVENTION	1189
<i>E. Zezulková, K. Janků</i>	
PROJECT METHODOLOGY IN INTERCULTURAL FOREIGN LANGUAGE COMMUNICATION TEACHING OF LINGUISTS IN TRANSLATION AND INTERPRETATION STUDIES	1197
<i>L. Korneeva, A. Kovaleva</i>	
FOREIGN LANGUAGE TEXTBOOK FOR INTERDISCIPLINARY RESEARCH PROJECTS	1204
<i>A. Kovaleva, O. Anchugova, D. Zarifullina, D. Kurmanova, M. Tkacheva</i>	
LINGUOCULTURAL PERCEPTION DIFFICULTIES IN THE PROCESS OF TEACHING ENGLISH AS A FOREIGN LANGUAGE IN A MULTICULTURAL STUDENT ENVIRONMENT	1211
<i>V. Maevskiy, E. Epifanova</i>	

ERASMUS EXPERIENCES IN THE UNIVERSITIES: THE JEAN MONNET MODULE AT PORTUCALENSE UNIVERSITY <i>D. Castilhos</i>	1219
KNOWLEDGE TRANSFER BETWEEN SELECTED STAKEHOLDERS IN THE TRIPLE HELIX CONCEPT <i>M. Rostasova, T. Corejova, M. Kincl</i>	1223
RETRACTION OF ACADEMIC ARTICLES DUE TO PLAGIARISING FROM DOCTORAL DISSERTATIONS: AN ACT OF ACADEMIC MISCONDUCT <i>R. Comas Forgas, C. Touza Gama, M. Morey López, T. Mut Amengual, E. Curiel Marín</i>	1230
DIFFERENCES IN ENTREPRENEURIAL INTENTION BETWEEN STUDENTS FROM PRIVATE AND PUBLIC UNIVERSITIES: THE CASE OF CROATIA <i>T. Lazibat, M. Damić, L. Buntić</i>	1232
AI COACHING: EFFECTIVENESS FACTORS OF THE WORKING ALLIANCE IN THE COACHING PROCESS BETWEEN COACHBOT AND HUMAN COACHEE – AN EXPLORATIVE STUDY <i>V. Mai, A. Richert</i>	1239
PROJECT HO‘OKU‘I - NA KUMU ALAKA‘I: HOW AN ONLINE PROFESSIONAL DEVELOPMENT PROGRAM SUPPORTS SECONDARY FACULTY AND NATIVE HAWAIIAN STUDENTS <i>L. Uyehara, N. Rombaoua Tamaka</i>	1249
ASSESSMENT CENTER IN THE STUDY OF THE LEVEL OF DEVELOPMENT OF SUPRA-PROFESSIONAL COMPETENCIES OF STUDENTS IN THE DIRECTION OF "HR-MANAGEMENT" <i>A. Pasha</i>	1259
WHAT DO STUDENTS EXPECT FROM LEARNING? A RESEARCH ON SKILLS AS A BRIDGE BETWEEN SCHOOL AND UNIVERSITY <i>A. Ceccherelli, D. Capaldi</i>	1267
BLOCKCHAIN TECHNOLOGIES AS A MECHANISM FOR PROTECTING INTELLECTUAL PROPERTY RIGHTS <i>E. V. Kupchina</i>	1277
IMPEDIMENTS TO THE DEVELOPMENT OF IMMERSIVE VIRTUAL REALITY IN EDUCATION <i>J. Extremera, D. Vergara, A.I. Gómez, P. Fernández, E. Ordóñez, M.P. Rubio</i>	1282
THINKING SKILLS FOR A TECHNOLOGICAL AGE: HAS PRIMARY EDUCATION AN IMPACT ON STUDENTS' SKILLS? <i>M.A. Manassero-Mas, A. Vázquez-Alonso</i>	1289
ROLE OF THE PEDAGOGUE AND HIS IMPACT ON COUNSELLING WORK IN THE SCHOOL <i>R. Petani</i>	1299
METHODS OF SCHOOL CHEATING FROM THE STUDENTS' POINT OF VIEW <i>J. Bajtos, L. Hasajova, G. Gabrhelová</i>	1309
CURRENT AND PREVIOUS PERCEPTION OF INSPECTIONS BY TEACHERS <i>J. Bajtos</i>	1316
PSYCHOLOGICAL WELL-BEING, HAPPINESS AND STRESS AMONG FOUNDATION COLLEGE EDUCATORS: A RASCH MEASUREMENT APPROACH <i>A. Mohd. Sukor, Z. Mahmud</i>	1322
MICROPLASTIC ANALYSIS IN MARINE ORGANISMS AS A FINAL DEGREE PROJECT <i>C. Hernández-Sánchez, J. González-Sálamo, C. Ortega-Zamora, J. Hernández-Borges</i>	1329
INQUIRY ABOUT THE PREVIOUS BACKGROUND AND OPINION OF THE STUDENTS IN THE SUBJECT ADVANCED CHEMISTRY (DEGREE IN CHEMICAL ENGINEERING) <i>J. Esteve-Romero, M. Esteve-Amorós, J. Péris-Vicente, J. Albiol-Chiva, S. Carda-Broch, M.J. Ruíz-Angel</i>	1335
STUDENT PERCEPTION ABOUT THE SUBJECT "CHEMISTRY I" <i>M. Esteve-Amorós, J. Esteve-Romero, J. Péris-Vicente, J. Albiol-Chiva, S. Carda-Broch, M.J. Ruíz-Angel</i>	1339
INTERCONNECTION OF SCIENCE, RESEARCH AND INNOVATION WITH HIGHER EDUCATION <i>Z. Dvorak, M. Luskova</i>	1346

ADAPTATION OF COMPUTER-ASSISTED EXPERIMENTATION TO MONOPROTIC ACID-BASE TITRATION	1352
<i>M. Esteve-Amorós, J. Esteve-Romero, J. Péris-Vicente, J. Albiol-Chiva, S. Carda-Broch, M.J. Ruíz-Angel</i>	
PEER TUTORING APPLIED IN BIostatISTICS AT THE MASTER DEGREE	1356
<i>J. Esteve-Romero, M. Esteve-Amorós, J. Péris-Vicente, J. Albiol-Chiva, S. Carda-Broch, M.J. Ruíz-Angel</i>	
PREVENTION TECHNOLOGY FOR INTERNET ADDICTION DISORDER IN ADOLESCENCE	1360
<i>D. Ilyasov, D. Pogorelov, N. Nikolov, E. Kovalenko, A. Sevryukova</i>	
ACADEMIC SELF-CONCEPT AND SATISFACTION WITH LIFE IN OLDER SCHOOL AGE	1371
<i>M. Popelková, E. Jurišová, M. Zaťková</i>	
EXPLORING MIXTURES, SOLUTIONS AND WATER DROPS WITH FIVE-YEAR-OLD CHILDREN USING AN EMERGENT APPROACH	1377
<i>A. Sottoriva, M. Carli, O. Pantano</i>	
PROBLEM-BASED APPROACH TO LEARNING/TEACHING IN ONLINE INTERMEDIATE ACCOUNTING COURSE	1386
<i>C. Fajardo</i>	
A MATLAB GRAPHICAL USER INTERFACE FOR ELECTRONIC TEST INSTRUMENT CONTROL IN THE ELECTRONICS ENGINEERING UNDERGRADUATE LAB	1387
<i>E. Momox, A.C. Vidaña</i>	
FAMILY EXPECTATIONS AND VISIONS FOR THEIR CHILDREN'S FUTURE: THE ROLE OF DEVELOPING CULTURAL LITERACY	1394
<i>I. Kacane</i>	
READINESS OF PRESCHOOL CHILDREN TO SOLVE WORD PROBLEMS	1401
<i>T. Kotrsalova, S. Pechouckova</i>	
UNDERPRIVILEGED STUDENTS' PERCEPTIONS ON THE IMPACTS OF UNIVERSITY BASED COMMUNITY SERVICE PROJECT: EDUTAINMENT 4 UPSR	1408
<i>N. Ismail, K.Y. Soo, H. Ahmad, D. Ratan Singh, W.N.H. Wan Mohd, N. Arbin, S. Elias, I.S. Mohd Ariff Albakri</i>	
DIAGNOSIS AND PROMOTION OF DECISION-MAKING COMPETENCIES OF STUDENTS WITH METHODS OF INTERNAL DIFFERENTIATION IN BIOLOGY LESSONS	1413
<i>M. Ternieten, D. Elster</i>	
THE FLIPPED CLASSROOM AS A MECHANISM FOR THE DEVELOPMENT OF CRITICAL THINKING	1423
<i>P. Santillán Aguirre, R. Santos Poveda, E. Jaramillo Moyano, M. Cadena Vaca, V. Cadena Vaca</i>	
VRoad VIRTUAL REALITY APPLIED TO ROADWORK TRAINING IN EUROPEAN CONSTRUCTION INDUSTRY	1432
<i>L.M. Barrios</i>	
APPS AND COLLECTIVE PLAYFUL ACTIVITIES TO FOSTER EXECUTIVE FUNCTIONS IN PRESCHOOLERS FOLLOWING AN INCLUSIVE APPROACH: A CASE STUDY	1441
<i>S. Panesi, L. Ferlino, M. Podestà</i>	
TEACHER EVALUATIONS ON THE USE OF DIGITAL AUGMENTATIVE AND ALTERNATIVE COMMUNICATION SYSTEMS IN SPECIAL EDUCATION	1451
<i>A. Viera Gómez</i>	
AN APPROACH FOR FOSTERING TEL QUALITY ASSURANCE PROCESSES IN KAZAKH HIGHER EDUCATION INSTITUTIONS	1458
<i>M. Monova-Zheleva, E. Nikolova, Y. Zhelev</i>	
A MULTI-CULTURAL EVALUATION OF THE PEDAGOGICAL VARIATION MODEL: A COLLABORATIVE STUDY WITH PRE-SERVICE TEACHER UNDERGRADUATES AT FEDERAL INSTITUTE (IFRS) BRAZIL, KUWAIT UNIVERSITY AND SOUTH URAL STATE UNIVERSITY, RUSSIAN FEDERATION	1468
<i>M.S. Rogers, A. Grunewald Nichele</i>	
PRESCHOOLERS WITH TYPICAL DEVELOPMENT OR SPECIAL EDUCATION NEEDS IN A LOW SES CONTEXT: THE RELATIONSHIP BETWEEN EARLY ACHIEVEMENT AND THEIR COGNITIVE UNDERPINNINGS	1479
<i>A. Bandettini, F. Salterini, S. Panesi, L. Ferlino</i>	
E-LEARNING COURSE AS A SUPPORT IN THE TEACHING OF DISCRETE PROBABILITY DISTRIBUTIONS	1488
<i>O. García León, M. Pineda Becerril, A. Aguilar Márquez, F. León Rodríguez</i>	

FAMILY ENGAGEMENT IN CHILDREN'S CULTURAL EDUCATION: TEACHING DIVERSITY <i>I. Kacane</i>	1494
EDUCATIONAL POTENTIAL OF DIGITAL TECHNOLOGIES <i>J. Hodaňová, H. Hyksová, M. Škultéty</i>	1501
LEARNING MANAGEMENT OF INFINITESIMAL CALCULUS WITH INTELLIBOARD <i>C. Calvo-Jurado</i>	1507
PEER ORIENTATION PROCESS FOR INCOMING STUDENTS <i>C. Calvo-Jurado, P. Roldán-Oliden</i>	1514
THE BLUE GOLD: AN EMPIRICAL RESEARCH TO INTRODUCE THE DISCUSSION OF WATER ISSUE IN RELATION TO PLANTS, ANIMALS AND HUMAN IN PRIMARY SCHOOL <i>I. Bortolami, P. Bisaccia, F. Corrà, M. Bonato, P. Irato, G. Santovito</i>	1518
DESIGN CONSIDERATIONS FOR A CONTEMPORARY "BUSINESS ECONOMICS LABORATORY" AT UNIVERSITIES: RESULTS OF AN INTER-UNIVERSITY BENCHMARKING PROJECT <i>L. Holder, M. Weissl, B.M. Zunk, V. Koch</i>	1528
PERSPECTIVES OF TURKISH STAKEHOLDERS ABOUT RECOMMENDED PRACTICES IN EARLY CHILDHOOD SPECIAL EDUCATION <i>S. Rakap, S. Kalkan</i>	1535
COMPARING NON-OVERLAP METHODS TO CALCULATE TREATMENT EFFECT ESTIMATES IN SINGLE-CASE EXPERIMENTAL RESEARCH <i>S. Rakap, S. Kalkan</i>	1540
LEARNING BY RESEARCHING. SEMINARS AS AN EDUCATIONAL STRATEGY <i>V. Rodríguez-Flores, M. Lopezdeasiain, E. Larive-Lopez</i>	1546
INTRODUCTION OF AUTOMATIC TESTS FOR TEACHING WEB TECHNOLOGIES <i>B. Doersam</i>	1555
EXPERIENCES WITH SOFTWARE ENGINEERING TOPICS IN UNIVERSITY COURSES <i>B. Doersam</i>	1561
WORKPLACE TRAINING IN THE MIDDLE EAST: CHALLENGES AND OPPORTUNITIES <i>D. Youssef</i>	1569
PROPOSAL FOR IMPLEMENTATION OF TELE WORK: THE CASE OF THE MINISTÉRIO PÚBLICO DO ESTADO DO MARANHÃO <i>R. Oliveira Mendes, L. Dias Oliveira, M. Soares Teixeira</i>	1570
A STUDY ON RELATIONSHIPS BETWEEN EMOTIONAL INTELLIGENCE AND CAREER SUCCESS - WORKPLACE SPIRITUALITY AS MODERATOR <i>S.M. Wu</i>	1578
UNIVERSITY'S THIRD MISSION AND THE REGIONAL INNOVATION SYSTEM IN THE SLOVAK REPUBLIC <i>T. Corejova, M. Rostasova, A. Valicova</i>	1589
SITUATED ESCAPE GAMES: FACILITATING KNOWLEDGE AND AWARENESS ABOUT HEALTHY NUTRITION <i>T. Yachin, M. Barak</i>	1595
TRANSFORMATIONS OF COMPUTATIONAL THINKING PRACTICES IN ELEMENTARY SCHOOL ON THE BASE OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES <i>G. Shamir, I. Levin</i>	1596
VISUAL LITERACY OF HEALTHCARE STUDENTS <i>A. Kirkova-Bogdanova, D. Taneva, Y. Tsokova</i>	1606
DOES ENTREPRENEURSHIP EDUCATION MATTER? ASSESSING THE IMPACT OF AN ENTREPRENEURSHIP EDUCATION PROGRAMME IN CABO VERDE <i>A. Dinis</i>	1614
DEVELOPING ENTREPRENEURSHIP IN PRE-SERVICE BIOLOGY TEACHERS <i>A. Špernjak</i>	1623
HARDWARE AND SOFTWARE FOR TEACHING DIGITAL-TO- ANALOG CONVERTERS IN ENGINEERING EDUCATION <i>S. Lyubomirov, D. Shehova, P. Yakimov, A. Chekichev</i>	1629
USE OF SOFTWARE ENVIRONMENTS AND OPEN SOURCE PLATFORMS FOR TEACHING MIXED-SIGNAL CIRCUITS <i>D. Shehova, S. Lyubomirov, K. Asparuhova, A. Chekichev</i>	1637

PBL+, A TAILOR-MADE LEARNING-TEACHING METHODOLOGY FOR STEM, BASED ON A COMBINATION OF PROBLEM BASED LEARNING (PBL) AND OTHER THREE INNOVATIVE METHODOLOGIES	1644
<i>B. Urbano, X. Gomez, M.E. Sanchez-Moran, M.I. San-Martin, R. Mateos, C. Fernandez, E.J. Martinez, O. Martinez-Moran, A. Moran, F. Gonzalez-Andres</i>	
ELECTRONIC LEARNING BY AN E-BOOK IN KINESIOLOGY FOR PHYSIOTHERAPISTS AND FOR MEDICAL DOCTORS – TRAINEES AND SPECIALISTS IN PHYSICAL AND REHABILITATION MEDICINE	1652
<i>I. Koleva, R. Yoshinov, B. Yoshinov</i>	
SYNTHESIS OF KNOWLEDGE TRACING MODELS USING NATURAL LANGUAGE PROCESSING ON LECTURE CONTENT	1659
<i>R. Nicolay, A. Martens</i>	
SELF-PERCEIVED ATTITUDES IN VIRTUAL LEARNING ENVIRONMENTS: A MEASUREMENT IN ACCOUNTING (FINANCIAL ECONOMY)	1667
<i>M. Hernández-Solís, T.C. Herrador-Alcaide</i>	
STEM METHODOLOGY IN STUDYING ARRAY DATA STRUCTURE IN EXTRACURRICULAR CLASSES	1673
<i>V. Ancheva, V. Voynohovska</i>	
DEVELOPMENT OF INTERACTIVE LEARNING CONTENT FOR HEALTHCARE STUDENTS	1678
<i>A. Kirkova-Bogdanova, D. Taneva, M. Becheva</i>	
FEELINGS AND ATTITUDES OF TUTORS IN THE ACCOUNTING EDUCATION OF MATURE DISTANCE STUDENTS	1682
<i>T.C. Herrador-Alcaide, M. Hernández-Solís, P. Del Campo Moreno, A.I. Segovia San Juan, L. Parte-Esteban, L. Mellado Bermejo</i>	
THE DEVELOPMENT OF SOFT SKILLS THROUGH GAME BASED LEARNING AMONG UNIVERSITY STUDENTS	1691
<i>P. Martín-Hernández, J.L. Azkue Beteta, A.I. Gil-Lacruz, M. Gil-Lacruz, A. C. Tesán Tesán</i>	
DEVELOPMENT OF STUDENT 'S FACTUAL KNOWLEDGE THROUGH NON – LINEAR STRUCTURE OF THE CURRICULUM	1697
<i>D. Gunišová, N. Kozárová</i>	
A PARTIAL CLIL EXPERIENCE IN ENGINEERING EDUCATION	1705
<i>M. Zubitur, M. Sánchez, F.J. Juanes, H. Etxeberria</i>	
DESIGNING INTERACTIVE EDUCATIONAL DRAWING-BASED BOARD GAME FOR CHILDREN	1713
<i>M. Khalili, F. Shakourirad, N.S. Hosseini</i>	
SURVEYS ABOUT LOCAL TRADITIONAL OBJECTS IN NIKKO, THE WORLD HERITAGE SITE -INTERCULTURAL CONTACTS AND UNDERSTANDING OTHER CULTURES-	1724
<i>Y. Hiramatsu, Y. Harada, M. Morishita, A. Ito, M. Saraki</i>	
WORKING AND FEELING AS A TEAM USING GAMIFICATION AMONGST UNIVERSITY STUDENTS	1729
<i>P. Martín-Hernández, A.I. Gil-Lacruz, M. Gil-Lacruz, A.C. Tesán Tesán, J.L. Azkue Beteta</i>	
WHY DO ARCHITECTS STILL DRAW? A WALK THROUGH THE SKETCHBOOK AS A THINKING TOOL	1736
<i>B. Butragueno, J.F. Raposo Grau, M.A. Salgado de la Rosa</i>	
THE EFFECTIVENESS OF E-LEARNING MODELS FOR STUDENTS WITH DISABILITIES IN TEACHING ENGLISH	1746
<i>E. Notina, V. Maeviskiy</i>	
THE ROLE OF INDIVIDUAL HUMAN POTENTIAL IN THE SPACE OF THE UNIVERSAL ONE	1755
<i>V. Kirko, A. Lukyanova, V. Razumovskaya, E. Grishaeva</i>	
CREATING A TEACHER COLLABORATIVE PRACTICE IN AN INTERNATIONAL HIGH SCHOOL IN BEIJING: THE ROLE OF THE PRINCIPAL	1760
<i>W. Zhang, T. Koshmanova</i>	
'BEING A SPACE MINING CREW': HOW PARTICIPANTS JOINTLY DISCOVER THEIR COMPLEMENTARY RESOURCES WHILE ENGAGING INTO A SERIOUS GAME AT AN INTERACTIVE TABLETOP (ITT)	1769
<i>B. Arend, S. Heuser, V. Maquil, H. Afkari, P. Sunnen</i>	
FLIPPED LEARNING METHODOLOGY IMPROVES TOXICOLOGY STUDENTS' ACADEMIC PERFORMANCE	1780
<i>P. Moyano, J.M. Garcia, J. Garcia, M.V. Naval, M. Lobo, M.J. Anadon, M.T. Frejo, J. Del Pino</i>	

STUDENTS' MOTIVATION INCREASE AS RESULT OF COMPREHENSIVE METHODOLOGY USE IN TOXICOLOGY CLASSES	1781
<i>P. Moyano, J. Garcia, J.M. Garcia, M.V. Naval, M. Lobo, M.J. Anadon, M.T. Frejo, J. Del Pino</i>	
EDUCATIONAL METHODS OF USING STUDENTS' SOCIAL PROFILES IN MUSEUM ACTIVITIES	1782
<i>E. Olesina, E. Polyudova</i>	
A PROJECT BASED LEARNING APPROACH TO ELECTROMAGNETISM	1786
<i>R. Cossovich</i>	
MATURE STUDENTS: GRADUATION PROSPECTS, DROPOUT RISK AND DRIVERS OF ACADEMIC PERFORMANCE	1793
<i>A.S. Lopes, P. Carreira</i>	
LOCAL AND REGIONAL DYNAMICS OF COOPERATION TO PROMOTE SUCCESS IN SCHOOL – AN INTEGRATED AND INNOVATIVE PROJECT NETWORK	1804
<i>S. Milhano, S. Reis, C. Mangas</i>	
FUNCTIONAL BEHAVIOUR ASSESSMENT OF CHILDREN WITH AUTISM SPECTRUM DISORDER BASED ON FAMILY & SPEECH LANGUAGE THERAPIST COLLABORATION	1814
<i>S. Alisauskiene, J. Grigenaite</i>	
SYNCHRONOUS COMMUNICATION TECHNOLOGIES AND STRATEGIES IN ONLINE EDUCATION FOR THE ENHANCEMENT OF THE LEARNING EXPERIENCE: A SYSTEMATIC LITERATURE REVIEW	1824
<i>D. Vlachopoulos, R. Bellinga</i>	
LEARNING HOW SCIENCE WORKS THROUGH BLACK BOX GAMES: A TEACHER TRAINING CASE STUDY	1834
<i>A. Vázquez-Alonso, M.A. Manassero-Mas</i>	
COMPARING ACHIEVEMENT OF LEARNING OUTCOMES AND SUCCESS INDICATORS IN ONLINE COMPUTER LITERACY CLASSES WITH BLENDED OFFERINGS	1841
<i>W. Farag, S. Ali, X. Wu</i>	
ELECTRONIC-BASED EDUCATION IN THE FIELD OF CARDIOREHABILITATION, FOCUSED ON MEDICAL STAFF AND PATIENTS	1852
<i>I. Koleva, B. Yoshinov, R. Yoshinov</i>	
CAN THE BENEFITS OF NATURE EXPOSURE ON COGNITIVE PERFORMANCE BE SIMULATED IN VIRTUAL REALITY? A CORRELATIONAL STUDY IN POST-SECONDARY STUDENTS	1860
<i>M. Leger, S. Mekary</i>	
STRUCTURED DISCRETE FAIR DIVISION ALGORITHM FOR ALLOCATING SUBTASKS WITHIN STUDENT PROJECTS	1865
<i>A. Madevska Bogdanova, M. Simjanoska</i>	
CULTURAL ACTIVITIES AS A RESPONSE TO MULTICULTURAL EDUCATION	1873
<i>C. Ravasco, F. Rodrigues</i>	
LEARNING ABOUT NUTRITIONAL LABELING AND PRESENCE OF ALLERGENS IN FOODS. A SERVICE LEARNING EXPERIENCE	1878
<i>M. Cámara, M.C. Matallana, M.L. Pérez-Rodríguez, M.C. Sánchez-Mata, V. Fernández-Ruiz, P. Morales, R.M. Cámara, P. García-Herrera, E. Dorta, J.I. Alonso-Esteban, M. Ciudad, L. Domínguez</i>	
ASSESSING FACTORS THAT INFLUENCE LEARNING PERFORMANCE WITH MOBILE APPS	1884
<i>R. Kay</i>	
A SYSTEMATIC REVIEW OF THE LITERATURE ON VIDEO FEEDBACK USED IN HIGHER EDUCATION	1890
<i>R. Kay, T. Bahula</i>	
MEASURING MOTIVATION AND TECHNICAL COMPETENCES ACHIEVEMENT TO COMPARE TWO TEACHING METHODS: A PORTUGUESE BUSINESS SCHOOL CASE	1897
<i>A. Amaro, L. Almeida, L. Fernandes</i>	
INTEGRATION OF STUDENTS FROM PORTUGUESE SPEAKING AFRICAN COUNTRIES	1906
<i>C. Ravasco, F. Rodrigues</i>	
ROBOTIC-ASSISTED SURGERY: PERIOPERATIVE NURSES' AND NURSE ANESTHETISTS' EDUCATION AND PRACTICE	1911
<i>Z. Schuessler</i>	

EXPERIMENTAL PROTOTYPE OF THE PRAGMATICALLY ORIENTED E-ASSESSMENT ALGORITHM FOR AUTOMATIC NATURAL LANGUAGE ANSWER GRADING <i>Dzh. Suleymanov, N. Prokopyev</i>	1917
CO-ORIENTATION©: A COLLABORATIVE METHOD TO GUIDE STUDENTS' DECISION-MAKING TO A RIGHT FIRST JOB <i>N. Chelin, S. Rouvrais</i>	1925
FROM THE COMPETENCE TOWARDS THE VIRTUE IN EDUCATION <i>P. Kondrla, A. Blascikova</i>	1931
EUROPEAN UNIVERSITY NETWORKS: BOTTOM UP OR TOP DOWN APPROACH? THE EIT DIGITAL COMMUNITY OF PRACTICE ON INNOVATION AND ENTREPRENEURSHIP AS A THIRD WAY <i>G. Guri, F. Renouard, M. Marchese</i>	1939
IMPROVEMENT OF THE FINAL TASKS-BASED ACTIVITIES OF THE TEXTBOOKS OF SPANISH AS A FOREIGN LANGUAGE <i>A. Brosa Rodríguez, M.J. Rodríguez Campillo</i>	1949
WHAT IT MEANS TO BE A 21ST CENTURY TEACHER: EXPERIENCES FROM THE BLENDED LEARNING PERSPECTIVE <i>R. Lynch, B. Brereton</i>	1959
DEVELOPMENT OF NUTRITIONAL GUIDELINES MODULE FOR CHILDREN WITH AUTISM SPECTRUM DISORDER (ASD) IN MALAYSIA <i>N.S. Ramli, N.H. Hamzaid, Z. Abdul Manaf, N.I. Hassan, N.A.S. Ismail</i>	1970
IMPACT OF DIGITAL LEARNING ON LEARNING MOTIVATION AMONG MEDICAL STUDENTS IN UNIVERSITI KEBANGSAAN MALAYSIA (UKM) <i>A.H. Ahmad Azman, J.X. Lee, J.Y. Ng, N.A.S. Ismail</i>	1978
THE ROLE OF SELF-EFFICACY, ATTITUDES, SOCIAL NORMS AND INSTITUTIONAL SUPPORT IN THE USE OF MODERN TEACHING APPROACHES AND ICT IN HIGHER EDUCATION <i>E. Kranjec, K. Breznik, L. Klasinc, J. Kolbl, M. Puhek, N. Špur, S. Frumen</i>	1987
STRATEGIES TO INSTIL A CULTURE OF READING <i>B. Makena, R. Sonn, I. Kariyana</i>	1997
TRANSVERSAL EXERCISES AMONG SUBJECTS OF FIRST YEAR IN MINING ENGINEERING <i>F.J. Iglesias, M.L. Sánchez, J.R. Villar, E.A. de la Cal, L. Bonavera, G. Fidalgo</i>	2004
APPRENTICESHIP IN GREECE: FOCUSING ON E-LEARNING OF A BLENDED LEARNING APPROACH FOR TRAINING VET TEACHERS AND TRAINERS <i>S. Pitsikalis, I.E. Lasica, I. Roussos</i>	2012
COMPARISON STUDENT LEARNING APPROACH OF FIRST YEAR LIFE SCIENCE STUDENTS <i>M. Leiva-Brondo, J. Cebolla-Cornejo, R. Peiró, A.M. Pérez-de-Castro</i>	2019
INSTRUCTORS GENDER AND TEACHING EXPERIENCE DIFFERENCES IN USING SOCIAL MEDIA TECHNOLOGIES TO SUPPORT ENGLISH LANGUAGE TEACHING <i>S. Alqarni, S. Alqarni</i>	2027
IMPROVING STUDENT MOTIVATION THROUGH AN EDUCATIONAL INNOVATION PROJECT AT THE FACULTY OF ECONOMICS AND BUSINESS (UNIVERSITY OF THE BASQUE COUNTRY) <i>A. Lafuente-Ruiz-de-Sabando, O. García-Alonso, G. Estibalez, M.P. Fernández-Ferrín, J. Forcada, C. González-Morgado, I. Iturricastillo, I. Lezcano, A. Munárriz, M.A. Peña, J. Tejedor</i>	2033
THE USE OF A BUSINESS GAME TO IMPROVE FIRST-YEAR STUDENT MOTIVATION AT THE FACULTY OF ECONOMICS AND BUSINESS (UNIVERSITY OF THE BASQUE COUNTRY) <i>A. Lafuente Ruiz de Sabando, O. Valmaseda-Andia</i>	2037
REGULAR USE ACTIVE RECALL AND ITS EFFECT ON THE LEARNING PROCESS AND ACADEMIC PERFORMANCE <i>D. Krygier</i>	2042
SCIENCE LEARNING AND SCIENCE LITERACY: ENHANCEMENT OF INTERACTIVE LEARNING AND HIGHER-ORDER THINKING PEDAGOGIES <i>N. Mtsi, S.M. Chiphambo</i>	2043
LEARNING CHALLENGES IN BUSINESS SCHOOLS: THE IMPLEMENTATION OF RUBRICS FOR THE DEFENSES OF FINAL MASTER'S THESES <i>H. Torrez Meruovia, M. Vila Bonilla, J. Marqués Pascual, S. Cruz Almanchel</i>	2050

CO-EVALUATION IN THE PERCEPTION OF COMPETENCE ACQUIRED BY BACHELOR OF BUSINESS MANAGEMENT STUDENTS	2051
<i>M. Vila Bonilla, H. Torrez Meruvia</i>	
GAME-BASED LEARNING OF SCIENTIFIC SKILLS	2052
<i>M. Huebra, J. Ibarretxe, A. Okariz, A. Sarasola, J.L. Zubimendi</i>	
PERFORMANCE EVALUATION OF AN AUTOMATED TEST GENERATION SYSTEM IN PROGRAMMING TRAINING	2058
<i>I. Kostadinova, M. Garvanova, I. Ivanov, K. Rasheva-Yordanova</i>	
EXAMPLES OF DEVELOPMENT OF DIGITAL COMPETENCIES ACROSS EDUCATIONAL FIELDS	2068
<i>T. Jerabek, P. Vaňková</i>	
3D PRINTING TECHNOLOGIES IN EDUCATIONAL EXPERIENCIES: BRINGING ADDITIVE MANUFACTURING & SUSTAINABILITY TO THE CLASSROOM	2076
<i>F. Serra-Parareda, Q. Tarrés, M. Delgado-Aguilar, F. Julián, M. Alcalà</i>	
TOWARDS THE USE OF CONTAINERIZATION TECHNOLOGY TO EDUCATE THE CYBERSECURITY ENGINEERS OF TOMORROW	2084
<i>A. Raza, M. Hasib, S.A. Alvi</i>	
A NEW MODEL FOR ASSESSING THE VOICE OF THE STUDENT IN A MOBILE APP DESIGN STAGE	2094
<i>S. Potra, A. Pugna</i>	
POPULARIZATION OF PHYSICS USING A SCANNING ELECTRON MICROSCOPE	2104
<i>D. Bušovský, J. Loskot</i>	
EXPLORING ADDED VALUE, A MULTIDIMENSIONAL EXPECTED CUSTOMER VALUE CONSTRUCT, IN THE CREATION OF INNOVATIVE UNIVERSITY APPLICATIONS	2110
<i>A. Pugna, S. Potra, W. Ștefănescu</i>	
THE DEVELOPMENT OF SOCIO-EMOTIONAL AND TECHNICAL SKILLS FOR UNEMPLOYED YOUTH AND WOMEN. CONTEXT AND METHODOLOGY OF THE FRENCH AWARDED PROJECT: RÉALISE TES RÊVES	2117
<i>M.P. Celume, F. Zenasni</i>	
DO LAPTOPS AND TABLETS CONTRIBUTE TO IMPROVE ACADEMIC RESULTS? EVIDENCE FROM HIGHER EDUCATION IN BUSINESS ADMINISTRATION	2119
<i>A.B. Alonso-Conde, J. Rojo-Suárez, J.Á. Zúñiga-Vicente</i>	
USING PEERWISE TO ENHANCE THE LEARNING EFFECTIVENESS IN MASTER'S DEGREE IN COMPUTING ENGINEERING	2130
<i>C. Carrión</i>	
INQUIRY-BASED LEARNING AND SCIENTIFIC PRACTICES: THE EXPERIENCE OF THE PHYSICS LABORATORY WITH PRE-SERVICE PRIMARY TEACHERS	2136
<i>N. Torresan, M. Carli, O. Pantano</i>	
TOWARDS THE AUTOMATIC CONSTRUCTION OF PERSONALIZED TEXTBOOKS FROM DIGITAL OPEN ACCESS CONTENT. AN EXAMPLE FOR A HEAT TRANSFER COURSE USING WIKIPEDIA MATERIALS	2146
<i>R. Fernández-Flores, B. Hernández-Morales</i>	
INFLUENCE OF COMPUTER AND INTERNET TECHNOLOGIES ON PROFESSIONAL AND SOFT SKILLS DEVELOPMENT OF THE MODERN YOUTH	2153
<i>S. Popova</i>	
ONLINE COURSE IN BUSINESS STATISTICS WITH R USING THE CANVAS E-LEARNING PLATFORM AS A COMPLEMENT TO THE TRADITIONAL CLASS	2158
<i>R. Morales Arsenal, J.M. Pinar Pérez</i>	
MEMORY GRAPH OF INTERNAL FORCES. CREATING A NEW MOODLE QUESTION TYPE	2163
<i>J.I. Hernando, A. Vázquez, M. Balbás, A. Aznar</i>	
THE USE OF ICT TOOLS AND STORYTELLING IN BILINGUAL SETTINGS	2169
<i>M. Pérez</i>	
HYBRID VOICE TRAINING - INTEGRATING VIRTUAL ROOMS INTO A VOICE TRAINING SEMINAR	2177
<i>K. Hohlbaum, E. Borowski, I. Isenhardt</i>	
MUSEUMS, DIGITAL TRANSFORMATION AND MOOCS. AN ITALIAN CASE STUDY	2182
<i>S. Thomaidou</i>	
THE ROLE OF FIELD TRIPS	2192
<i>F. Rodrigues, C. Ravasco</i>	

INNOVATIVE TECHNOLOGIES FOR THE STUDY OF BANKING ACTIVITY <i>M. Lychagin, A. Perfilev, L. Perfileva</i>	2198
INNOVATIVE TECHNOLOGIES FOR THE STUDY OF FINANCIAL MANAGEMENT <i>M. Lychagin, A. Perfilev, L. Perfileva</i>	2209
LANGUAGE/CULTURE: TWO INSEPARABLE FACES OF A SECOND LANGUAGE TEACHING <i>F. Rodrigues, C. Ravasco</i>	2219
IMPLEMENTATION OF PICTURE BOOKS THROUGH ICT TOOLS: STORYBOARD IN BILINGUAL SETTINGS <i>M. Pérez</i>	2227
PERSONALITY TRAITS AND SUBJECTIVE THEORIES OF FUTURE EARLY CHILDHOOD EDUCATORS AS DETERMINANTS OF THEIR PROFESSIONAL IDENTITY <i>S. Tatalović Vorkapić, L. Ljevar, M. Batistič Zorec</i>	2234
THE USE AND DEVELOPMENT OF VIDEO GAMES IN THE CLASSROOM: YOU SHOULD CONSIDER IT <i>P.N. Rito</i>	2244
RELATIONS BETWEEN SRL AND TEACHERS' EMOTIONS IN TECHNOLOGY INTEGRATION <i>X. Huang, L. Huang, S.P. Lajoie</i>	2249
AUTOMATIC LABELLING OF TOPICS IN UNIVERSITY SUBJECTS TO DETECT WHICH TOPICS ARE MORE DIFFICULT TO LEARN <i>J. Martinez-Romo, J. Gomez-Martin, L. Plaza, L. Araujo, F. Lopez-Ostenero</i>	2257
DEVELOPMENT OF TEACHER EDUCATION IN THE CONTEXT OF A STUDENT-CENTERED APPROACH <i>J. Dzeroviniks, V. Dzerovinika</i>	2263
A CONCEPTUAL EDUCATIONAL MODEL FOR ENHANCING INFORMATION LITERACY IN AN UNIVERSITY INFORMATION ENVIRONMENT: PROJECT FRAMEWORK <i>S. Denchev, T. Trencheva, E. Zdravkova</i>	2272
SUPPORTING STRUCTURAL TEMPLATES FOR MULTIPLE LEARNING SYSTEMS WITH STANDARDIZED QUALIFICATIONS <i>M. Winterhagen, M.D. Hoang, H. Lersch, F. Fischman, M. Then, B. Wallenborn, D. Heutelbeck, M. Fuchs, M. Hemmje</i>	2280
PROFESSIONAL DEVELOPMENT OF A NOVICE TEACHER IN DISTANT EDUCATIONAL ENVIRONMENT VIA A PERSONALLY-ORIENTED FURTHER PROFESSIONAL TRAINING PROGRAM <i>I. Rodionova, O. Titova, N. Kalinin, E. Konisterova, I. Golovina</i>	2290
THE IMPACT OF EXPERIENTIAL LEARNING ACTIVITIES IN A MANAGERIAL ANALYTICS COURSE AS PART OF AN MBA PROGRAM <i>D. Morin</i>	2294
MENTORING AS A LEARNING AND DEVELOPMENT TOOL: ITS IMPACT ON UNDERGRADUATE STUDENTS IN RETAIL MANAGEMENT <i>S. Estrela, M. Felício, D. Magueta, C. Veloso</i>	2302
UNDERSTANDING MEDICAL STUDENTS' CLINICAL REASONING TENDENCIES AND PATTERNS <i>A. Ruiz Segura, T. Li, S.P. Lajoie</i>	2309
'MOTIVATION AND ENGAGEMENT' AS ONE OF THE DESIGN PRINCIPLES OF A FLIPPED CLASSROOM APPROACH <i>M. Loizou</i>	2318
USING OPEN-SOURCE NUMERICAL COMPUTATION SOFTWARE IN EDUCATION - BASIC PERFORMANCE COMPARISON AND LAB EXAMPLES <i>M. Mikac, M. Horvatić</i>	2319
NETWORKING CASE STUDY IN STEM EDUCATION - TRANSPORT LAYER PROTOCOL (TCP AND UDP) LABS <i>M. Mikac</i>	2328
APPLICATION OF THE REFUTATION TEXT TO ACHIEVE CONCEPTUAL CHANGE IN THE CONSTRUCTION OF FREE BODY DIAGRAMS IN STATICALLY DETERMINED BEAMS <i>J. Flores, M. Alcivar</i>	2338

STUDENTS' INTERCULTURAL COMPETENCE CHANGE IN THE MIXED CLASS OF A CHINESE UNIVERSITY	2344
<i>L. Liu</i>	
A NEW TYPE OF QUESTIONS FOR TEACHING AND ASSESSING CRITICAL THINKING IN MATHEMATICS	2348
<i>S. Klymchuk, C. Sangwin</i>	
NATURAL LANGUAGE PROCESSING FOR DATA MINING IN COMPUTER SCIENCE EDUCATION	2356
<i>F. López-Ostenero, L. Plaza, J. Martinez-Romo, L. Araujo</i>	
CREATIVE DISSEMINATION OF OPTOMETRY FOR PRIMARY EDUCATION STUDENTS	2362
<i>J.J. Esteve-Taboada, M.A. Díez-Ajenjo, M.C. García-Domene, M.J. Luque-Cobija, R. Vila-Andrés, L. Torres-Villanueva, P. García-Balaguer, J. Malo, P. Capilla, V. Sanchis, D. de Fez, A. Pons</i>	
THE VOICES OF THE CHILDREN: WHAT DO CHILDREN HAVE TO SAY ABOUT THE KINDERGARTEN?	2367
<i>D. Velan, S. Tatalović Vorkapić</i>	
OPTOMETRIC GYMKHANA FOR THE ACQUISITION OF CLINICAL PSYCHOPHYSICS CONCEPTS	2377
<i>A. Díez-Ajenjo, J.J. Esteve-Taboada, M.C. García-Domene, M.J. Luque-Cobija, J. Malo, P. Capilla, V. Sanchis, D. de Fez, A. Pons</i>	
LANGUAGE PREPARATION OF CHILDREN IN CZECH KINDERGARTENS THROUGH IMMERSION	2386
<i>M. Fasnerová</i>	
A PROBLEM AND PROJECT-BASED LEARNING FOR DEPLOYMENT REAL MONITORING AND CONTROL SYSTEMS WITH APPLICATIONS FOR THE INDUSTRY 4.0	2391
<i>M.C. Rodriguez-Sanchez, J. Vaquero-Lopez, R. Orellana, S. Borromeo-López</i>	
THE EMPOWERMENT OF THE STUDENT USING COLLABORATIVE PROJECTS FOR ENGINEERING BASED ON OPEN SOURCE HARDWARE AND COMMERCIAL DEVELOPMENT ENVIRONMENTS	2401
<i>C. Rodriguez-Sanchez, I. Yahyaoui, N. Malpica</i>	
INTELLIGENT TOOL FOR DEVELOPING STUDENT'S SOCIAL SKILLS	2408
<i>R. Kupriyanov, A. Uoarov, M. Makarova, P. Unruh, G. Vodopian, I. Levin</i>	
RESEARCH OF CONSCIOUS AND UNCONSCIOUS PREFERENCES OF POTENTIAL APPLICANTS FOR STUDY AT SELECTED TRANSPORT FACULTY IN SLOVAKIA	2414
<i>R. Madleňák, J. Kurotová, R. Chinoracký</i>	
SECTORAL QUALIFICATIONS FRAMEWORK FOR AIR TRANSPORT INDUSTRY	2422
<i>S.E. Zaharia, S. Toma, R.E. Boc</i>	
RESEARCH OF THE PERCEPTION OF PICTURES REPRESENTING STUDY PROGRAMS OF THE SELECTED TRANSPORT FACULTY IN SLOVAKIA FROM THE PERSPECTIVE OF GENDER OF ITS POTENTIAL STUDENTS	2432
<i>R. Madleňák, R. Chinoracký, J. Kurotová</i>	
CONTENT CURATION AS A TOOL FOR TEACHING AND LEARNING IN HIGH EDUCATION AND CORPORATE SETTINGS	2438
<i>G. Faure</i>	
EDUCATION FOR SUSTAINABLE DEVELOPMENT IN HIGH EDUCATION INSTITUTIONS	2439
<i>R. Jukić, S. Kakuk</i>	
VALUES AS ELEMENT OF INSTITUTIONAL IDENTITY OF THE UNIVERSITIES IN MEXICO	2446
<i>M. Briceño Caballero, R. Comas Forgas</i>	
DESIGN AND ACCEPTANCE OF CHATBOTS FOR INFORMATION AUTOMATION IN UNIVERSITY CLASSROOMS	2452
<i>F. Rejón-Guardia, G.A. Vich-I-Martorell</i>	
DEVELOPMENT OF INQUIRY SKILLS TO ANALYSE AND DETERMINE RELATIONSHIPS BETWEEN VARIABLES IN MATHEMATICS TEACHING USING GEOGEBRA	2463
<i>J. Sekerák, S. Lukáč, J. Doboš</i>	
HOW TO DESIGN A FLIPPED CLASSROOM THAT ENGAGES STUDENTS? A NEW MODEL AND SCALE	2472
<i>E.W.K. Yeung, S.W.S. Wan</i>	

STUDENT PERCEPTION OF THE EDUCATIONAL RELATIONSHIP BETWEEN A TEACHER AND A STUDENT IN THE TEACHING PROCESS	2479
<i>R. Jukić, Z. Menalo, N. Menalo</i>	
HOW TO IMPROVE LEARNING ABOUT SUSTAINABILITY AND ENERGY EFFICIENCY ON BUILDING ROOFS	2485
<i>Á. Mas, C. Lerma, V. Blasco, E. Gil, J. Vercher, J. Borràs</i>	
IMPROVING VIETNAMESE STUDENTS' PRONUNCIATION THROUGH OFFICE 365: A PILOT STUDY	2491
<i>A. Lengálová</i>	
ARE UNIVERSITY STUDENTS OPTIMISTIC, REALISTIC OR PESSIMISTIC ABOUT THE PERCEPTION OF THEIR GRADES?	2499
<i>A.J. Yuste-Delgado, J.C. Cuevas-Martínez, A. Triviño-Cabrera</i>	
UNIVERSITY STUDENTS' ATTITUDE TO ORAL PRESENTATIONS	2506
<i>A. Lengálová</i>	
CONSTRUCTIVE AND STRUCTURAL ANALYSIS OF THE BUILDING CONSTRUCTION PROCESS USING COMPUTER TOOLS FOR ITS UNDERSTANDING IN THREE AND FOUR DIMENSIONS	2514
<i>E. Gil, Á. Mas, C. Lerma, V. Blasco, J. Vercher, J. Borràs</i>	
EVALUATION OF CONSECUTION OF TRANSVERSAL COMPETENCIES IN HIGHER EDUCATION: STUDENT PERCEPTIONS	2521
<i>J.C. Cuevas-Martínez, A.J. Yuste-Delgado, A. Triviño-Cabrera</i>	
RECOGNIZING FUNCTIONS OF STEREOTYPING IN POPULAR CULTURE	2527
<i>M. Dubovitskaya, S. Kamalova</i>	
THE IMPORTANCE OF TEACHING METALITERACY FOR SPECIFIC AND GENERAL PURPOSES	2534
<i>M. Dubovitskaya, S. Kamalova</i>	
THE USE OF SOCIAL NETWORKS AND ONLINE SOURCES TO LEARN ABOUT ARCHITECTURAL TECHNOLOGY IN SPANISH SPEAKING COUNTRIES	2540
<i>M. Monzón-Chavarrías, A. Espinosa-Fernández, B. López-Mesa</i>	
PRODUCTION AND APPLICATION OF AN INSTRUCTIONAL LABORATORY VIDEO OF QUECHERS METHODOLOGY TO FACILITATE A FLIPPED PRELABORATORY TEACHING	2545
<i>M.J. Lerma-García, M. Vergara-Barberán, E.J. Carrasco-Correa, F.A. Esteve-Turrillas, S. Armenta, M.L. Cervera, E.F. Simó-Alfonso, J.M. Herrero-Martínez</i>	
HOW TO ENGAGE STUDENTS IN ONLINE TEACHING MATERIAL? THE MAKING OF AN E-LEARNING PROGRAMME FOR UNIVERSITY RESIDENT ASSISTANTS	2553
<i>E.W.K. Yeung, S.W.S. Wan</i>	
IDENTIFICATION AND USE OF STUDENT LEARNING STYLES FOR DEVELOPMENT OF PERSONALIZED VLE	2557
<i>I. Piščikienė, B. Šustickienė, J. Mamčenko</i>	
MAKING IT FIT: EXAMINING THE ASSESSMENT OF CONTEXTUAL KNOWLEDGE AND UNDERSTANDING IN THE POSITIVIST ASSESSMENT MODALITY OF MEDICAL EDUCATION	2566
<i>E.J. Hothersall, V. Rodrigues, M. Gordon, J.C. McLachlan, S. McAleer</i>	
VISUAL COMPETENCIES TO IMPROVE THE INTERPRETATION OF VISUAL REPRESENTATIONS	2575
<i>J. Flores, A. Solorzano, J. Holguin</i>	
SMART GOVERNANCE AND A MULTICOMPONENT INFORMATIZATION MODEL FOR THE SERVICE AND THE MAINTENANCE OF THE HIGHER EDUCATION SYSTEM	2581
<i>D. Pavlova, K. Boyanov</i>	
THE ROLE OF ACADEMIC LIBRARIES IN DISTANCE LEARNING	2586
<i>S. Eftimova, K. Mincheva, P. Mukanova</i>	
THE ROLE OF THE DIGITAL TRANSFORMATION FOR THE IMPROVEMENT OF THE UNIVERSITY EDUCATION AND THE IMPORTANCE OF THE IT LEADERSHIP FOR THE SUCCESSFUL RE-ENGINEERING OF THE LEARNING PROCESS	2596
<i>D. Pavlova, M. Matrachiyski, P. Gindev</i>	
MEANS TO OVERCOME CHALLENGES FOR PRIMARY SCHOOL TEACHERS IN ENSURING INCLUSIVE EDUCATION FOR CHILDREN WITH AUTISM SPECTRUM DISORDER	2601
<i>R. Raudeliūnaitė, E. Steponėnienė</i>	

THE LEVEL OF BIM AWARENESS OF STUDENTS IN FACULTY OF CIVIL ENGINEERING	2610
<i>Y. Nechyporchuk, R. Bašková</i>	
SOFTWARE SUPPORT OF BIM PLATFORM IN EDUCATIONAL PROCESS	2617
<i>R. Bašková, Y. Nechyporchuk</i>	
ENABLING EMPLOYABILITY FOR HE STUDENTS THROUGH EFFECTIVE PEDAGOGY: PEDALL – A TEACHING SOLUTION	2621
<i>J. Adamson, D. Sloan</i>	
DEVELOPMENT OF ICT TOOLS FOR THE PROMOTION OF CITIZEN SCIENCE IN SCHOOLS (CS4ESD PROJECT)	2628
<i>G. Rodríguez-Loinaz, M. Onaindia, I. Ametzaga-Arregi, I. Palacios-Agundez</i>	
FROM PENCIL AND PAPER TO ICT IN MATHEMATICS TEACHING. AN OVERVIEW OF THE ROLE OF ICT IN MATHEMATICS TEACHING IN ALBANIA	2635
<i>D. Starja, N. Nikolova</i>	
STICKY NOTES AS A DESIGN MATERIAL FOR INDUSTRIAL DESIGN SKETCHING	2645
<i>F. Gaetani, F. Brevi</i>	
THE ROLE OF ICT IN IMPROVING PROBLEM-SOLVING IN TEACHING MATHEMATICS	2651
<i>D. Starja, B. Shity, N. Nikolova</i>	
TEACHING SUPPORT PROGRAM THROUGH INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) TOOLS AT THE UNIVERSITY OF LA LAGUNA: AN OVERVIEW	2660
<i>L. Díaz, I. Rui Gómez, C. Expósito, A. Expósito</i>	
OVERVIEW OF EDUCATIONAL INNOVATION THROUGH MASSIVE OPEN ONLINE COURSES AND SUPPORT OF INFORMATION AND COMMUNICATION TECHNOLOGY AT THE UNIVERSITY OF LA LAGUNA	2665
<i>C. Expósito, A. Expósito, L. Díaz, I. Rui Gómez</i>	
DID YOU SAY MATHS? NOT EVEN SCARED! ASSESSMENT OF THE FIRST EXERCISE PERIOD OF THE MATH PLAN OF THE ACADEMY OF MARTINIQUE	2669
<i>M. Garçon</i>	
BENEFICIARIES' QUALITY OF LIFE OF AN UNCONDITIONAL TRANSFERS EDUCATION PROGRAM IN MEXICO CITY	2676
<i>K. Raccanello</i>	
MAPPING DIGITAL TECHNOLOGIES TO PEDAGOGIES INSPIRED BY BLOOM'S TAXONOMY	2686
<i>T. Dube, S.R. Williams</i>	
INTERACTIVE APPLICATION "RUSSIAN PREPOSITIONS "B" AND "HA"" AS A MEANS OF ELIMINATING ERRORS IN THE USE OF PREPOSITIONS "IN" / "ON" (ON THE EXAMPLE OF WORKING WITH KOREAN STUDENTS)	2690
<i>I. Kalinina, V. Abyshkina, Y. Tugova, S. Pudovkina, E. Pinevich</i>	
PRACTICES OF LEARNING A FOREIGN LANGUAGE FOR COMMUNICATION PURPOSES AT UNIVERSITY LEVEL: THE CASE OF FRENCH LANGUAGE	2697
<i>M.C. Pop</i>	
A VIRTUAL REALITY APPLICATION IN NUCLEAR PHYSICS	2705
<i>A. Budano, G. De Pietro, A. Martini</i>	
PECULIARITIES OF DEVELOPING E-LEARNING SYSTEMS IN MILITARISED EDUCATION INSTITUTION	2710
<i>M. Spridzans, J. Dzerviniks</i>	
EVALUATION OF THE STUDENTS' ACADEMIC PERFORMANCE AFTER COORDINATION ACTIONS BETWEEN CORE SUBJECTS OF THE NURSING DEGREE. A PILOT STUDY	2716
<i>N. Padrós-Flores, M.V. Gómez Vicente, J.V. García Velasco, G. Esquivá Sobrino, E. Ausó Monreal</i>	
MUSIC THAT CONNECTS	2721
<i>S. Kalná, B. Hašková</i>	
MOBILE LEARNING TEACHER COMPETENCIES FRAMEWORK	2726
<i>S. Nikou</i>	
THEORETICAL AND PRACTICAL ASPECTS OF EDUCATORS DIGITAL COMPETENCE DEVELOPMENT IN MILITARIZED EDUCATION INSTITUTION	2732
<i>M. Spridzans, J. Dzerviniks</i>	
TRANING TEACHERS ON INTERACTIONAL COMPETENCE IN AN ONLINE ENVIRONMENT: A METHODOLOGY	2739
<i>A. Santamaria Urbietta, M. Querol-Julian</i>	

WORKER EDUCATION FOR SAFETY IN EXCAVATION AND TRENCHING OPERATIONS	2745
<i>S. Priyadarshini, E. Cochran Hameen, S. Singh</i>	
21ST CENTURY SKILLS AND DIGITAL SKILLS, ARE ONE AND THE SAME THING?	2752
<i>H. Belchior-Rocha, R. Mauritti, J. Paiva Monteiro, L. Carneiro</i>	
ADVANTAGES OF JUST IN TIME TEACHING METHODOLOGY FOR LABORATORY ACTIVITIES IN CHEMICAL ENGINEERING DEGREE	2759
<i>A.M. Borreguero, J. Llanos, C.M. Fernández-Marchante, E. Lacasa, A.R. De la Osa, M.L. Sanchez-Silva, A. de Lucas-Consuegra, J.M. García-Vargas, T. Garcia</i>	
BIBLIOGRAPHIC WORKS FOCUSED ON THE MANAGEMENT OF SOLID WASTES INCLUDING NOVEL SCIENTIFIC EVIDENCES	2765
<i>E. Lacasa, J.M. García-Vargas, C.M. Fernández-Marchante, A.R. de la Osa, A.M. Borreguero, J. Llanos, M.L. Sanchez-Silva, A. de Lucas-Consuegra</i>	
FAMILY AND EDUCATION IN CONTEMPORARY SOCIETY	2771
<i>C.C. Pascariu</i>	
ARE VIRTUAL AND PHYSICAL COMMUNITIES DIFFERENT ON THEIR ACADEMIC USE?	2776
<i>M. Novo, J. Sanmarco, A. Selaya, D. Seijo</i>	
RELATIONSHIP BETWEEN CLASS PARTICIPATION AND WELL-BEING IN UNIVERSITY STUDENTS AND THE EFFECT OF COVID-19	2783
<i>M. Novo, Y. Gancedo, M.J. Vázquez, V. Marcos, F. Fariña</i>	
THE REQUIREMENTS FOR A GRADUATE OF THE OCCUPATIONAL SAFETY AND HEALTH DEPARTMENT	2792
<i>I. Tureková, I. Marková, J. Bilčíková</i>	
PREVENTION AGAINST HEALTH AND ERGONOMIC RISKS BY WORK WITH COMPUTERS	2803
<i>I. Tureková, M. Šebo, N. Turčeková</i>	
DIGITAL IMAGE PROCESSING COURSE EXAMPLE: OBJECTIVE IMAGE QUALITY MEASURE APPLICATION	2813
<i>E. Dumic, T. Horvat, D. Srpak, A. Bjelopera</i>	
STUDENTS PERCEPTION OF EDUCATIONAL ACTIVITIES USING THE ONLINE TOOL "MENTIMETER: INTERACTIVE PRESENTATION SOFTWARE" - E-LEARNING PLATFORMS	2820
<i>D.F. Ciocodeica, N.V. Dumitrache, G. Orzan</i>	
ENHANCEMENT OF MATHEMATICAL PROBLEM SOLVING BY DISCUSSING AND COLLABORATING ASYNCHRONOUSLY	2827
<i>A. Barana, C. Fissore, M. Marchisio, F. Roman</i>	
USE OF ALTERNATIVE WORKING METHODS IN TRAINING OF STUDENTS AT FLSCH, ULSIT: A BASIS FOR THE TRANSFORMATION OF STUDENTS FROM PASSIVE LISTENERS TO ACTIVE PARTICIPANTS IN THE LEARNING PROCESS	2837
<i>K. Mincheva, S. Eftimova</i>	
EXPERIMENTAL APPROACH FOR WORKING WITH STUDENTS IN THE ACADEMIC DISCIPLINE OF "ACCESS TO INFORMATION FOR PEOPLE WITH SPECIAL NEEDS": PERFORMANCE AND PARTICIPATION IN STUDENT'S EXPERIENCES	2845
<i>S. Eftimova</i>	
SCIENTIFIC, EDUCATIONAL AND CULTURAL SOCIAL DIALOGUE BETWEEN TEACHERS AND STUDENTS IN THE UNIVERSITY ENVIRONMENT	2855
<i>K. Mincheva, P. Mukanova, S. Eftimova</i>	
INTEGRATED DASHBOARDS WITH SOCIAL MEDIA ANALYSIS CAPABILITIES FOR MONITORING QUALITY IN HIGHER EDUCATION INSTITUTIONS	2862
<i>A. Sorour, A. Atkins, C. Stanier, F. Alharbi, R. Campion</i>	
3D VIDEO AS A PRACTICE-LEARNING MODULE IN SURGICAL EDUCATION	2871
<i>I. Rajković, D. Radonić, K. Grsic, J. Žiljak Gršić</i>	
INITIAL ASSESSMENT OF THE TRAINING OF MANAGERIAL COMPETENCES IN POSTGRADUATE STUDENTS IN ADMINISTRATION AT THE INSTITUTO POLITÉCNICO NACIONAL	2877
<i>E.O. Cardoso Espinosa, J.A. Cortés Ruiz, M.J. Blas Rivera</i>	
THE FORMATION OF RESEARCH COMPETENCES IN POSTGRADUATE STUDENTS IN ADMINISTRATION AT THE INSTITUTO POLITÉCNICO NACIONAL	2882
<i>E.O. Cardoso Espinosa, J.A. Cortés Ruiz, S.V. Cortés Ruiz</i>	

A MODEL FOR ESTABLISHING THE BASIC PRINCIPLES OF CREATING A QUALITY MANAGEMENT SYSTEM IN LAW ENFORCEMENT EDUCATION INSTITUTIONS <i>I. Zalitis, J. Davidova, R. Glaudins</i>	2886
VULNERABILITIES OF DIGITAL SECURITY IN UNIVERSITY STUDENTS <i>C. Torres-Gastelú, G. Kiss, M. Cuevas-González</i>	2895
21ST CENTURY BOOKWORMS: AN ACTION RESEARCH EXPERIMENT IN A PORTUGUESE PROFESSIONAL SCHOOL <i>T. Guedes da Fonseca, M.L. Branco, C. Reis</i>	2901
LEARNING IN GLOBAL VIRTUAL TEAMS ACROSS 15 UNIVERSITIES <i>A. Gordon</i>	2906
THE EUROPEAN HEALTH LITERACY SURVEY: RESULTS ON OUTPATIENT CARE FOR THE ELDERLY IN NORTHERN PORTUGAL <i>I. Vaz, L. Oliveira</i>	2914
UTILIZING KHAN ACADEMY TO IMPROVE READING COMPREHENSION IN SOLVING MATHEMATICAL WORD PROBLEMS FOR GRADE 7 STUDENTS <i>P.M. Cerrado, D.D. Errabo</i>	2925
CULTURAL EDUCATION IN THE SYSTEM OF LATVIAN GENERAL SECONDARY EDUCATION: YOUNG PEOPLE AND TEACHERS' ASSESSMENT OF THE CONTENT AND METHODS OF CULTURAL EDUCATION <i>A. Romanovska</i>	2930
CULTURAL EDUCATION WITHIN THE SYSTEM OF GENERAL SECONDARY EDUCATION AS A TOOL FOR SHAPING REGIONAL, NATIONAL, AND EUROPEAN IDENTITY: THE FIELDWORK RESULTS IN LATVIA <i>A. Romanovska</i>	2936
DATA WAREHOUSE AND ADVANCED TOPICS IN DATABASES COURSE CURRICULUM DESIGN AND EXPERIENCES <i>D. Jaksic</i>	2942
RESEARCH OF CONTEMPORARY EDUCATIONAL PROGRAMS OF CULTURAL INSTITUTIONS IN BULGARIA: NEW RESEARCH PROJECT <i>S. Spasova, S. Dimitrova</i>	2950
EDUCATIONAL INITIATIVES IN THE BULGARIAN MUSEUMS – SOME GOOD PRACTICES <i>S. Spasova</i>	2955
INTERNET ADDICTION AND PERSONALITY AMONG COLLEGE STUDENTS OF GENERATION Y AND Z <i>S. Dobešová Cakirpaloglu, J. Kvintová, S. Lemrová, R. Hájková</i>	2959
DISCOVERING THE NERVOUS SYSTEM. AN INNOVATIVE TEACHING APPROACH FOR PRIMARY SCHOOL <i>G. Fabris, P. Bisaccia, F. Corrà, M. Bonato, P. Irato, G. Santovito</i>	2969
AN ANALYSIS OF THE NEW CHALLENGES FACING CYBER SECURITY EXPERTISE <i>W. Dimitrov, B. Jekov, E. Kovatcheva, L. Petkova</i>	2978
USING “FLIPPED CLASSROOM” STRATEGIES TO TEACH UNDERGRADUATE COURSES OF QUANTUM CHEMISTRY. APPLICATION TO A MODIFIED HÜCKEL METHOD INCLUDING A PARTIAL OVERLAP <i>A.M. Graña, J.M. Hermida-Ramón, M. Mandado, R.A. Mosquera, A. Peña-Gallego</i>	2987
E-RUBRICS IN HIGHER EDUCATION: SELF-ASSESSMENT THROUGH CORUBRICS TO ENHANCE LEARNING IN AN ONLINE COURSE <i>M. Querol-Julián</i>	2993
TEACHING RUSSIAN SPEECH ETIQUETTE FORMULAE TO CHINESE STUDENTS (BASED ON ADDRESS AND GREETING IN BUSINESS COMMUNICATION) <i>N. Novospasskaya, X. Ziyi, N. Perfilieva, O. Lazareva</i>	2997
ENHANCING STUDENTS' KNOWLEDGE AND SKILLS IN PROGRAMMING VIA A SYSTEM OF TASKS <i>G. Atanasova, P. Hristova</i>	3003
TEACHER'S PERCEPTION OF THE EDUCATIONAL RELATIONSHIP ON THE RELATION TEACHER-PUPIL IN A SCHOOL <i>S. Kakuk, Z. Menalo, N. Menalo</i>	3011
A VISUAL THINKING, EVIDENCE-BASED, KINETIC LABORATORY EXPERIMENT: DETERMINING THE RATE LAW FOR THE BLEACHING OF CRYSTAL VIOLET DYE BY HYDROXIDE IONS <i>S. Losada-Barreiro, C. Bravo-Díaz, A. Peña-Gallego, R.A. Mosquera, A.M. Graña</i>	3017

SUPPORTING TEACHERS IN CHOOSING MATHEMATICS LEARNING VIDEOS	3022
<i>I. Ratnayake, R. Bruder, M. F. Mammanna, E. Taranto</i>	
TECHNOLOGY FOR MASTERING RUSSIAN VOCABULARY BY CHINESE STUDENTS IN THE FIELD OF INTERNATIONAL TRADE	3032
<i>O. Lazareva, Y. Yuhan, N. Perfilieva, N. Novospasskaya</i>	
INTERNSHIPS: EVALUATION OF THE COMPETENCES ACQUIRED BY THE STUDENTS OF THE DEGREE IN LABOUR RELATIONS AND HUMAN RESOURCES AND THEIR ADAPTATION TO THE LABOUR MARKET	3037
<i>A. Hernández-Trasobares, P. Latorre-Martínez, J.L. Murillo-Luna, P. Ramos-Villagrasa, E. Santor-Salcedo, O. Urbina-Pérez, M. Vilariño-Vázquez</i>	
THE IMPACT OF AUDIOVISUAL MEDIA ON CHILDREN WITH AUTISM SPECTRUM DISORDERS	3045
<i>E. Brlek, M. Milković, J. Škoda</i>	
A HIGH-EFFICIENT LOW BUDGETARY APPROACH TO CYBER-SECURITY EXERCISES	3051
<i>W. Dimitrov, B. Jekov, E. Kovatcheva, T. Ostrovska</i>	
SHARING STUDENT MARKETING COMPETENCES THROUGH GAMIFICATION AND ITS USE AS A DECISION MAKING TOOL FOR BUSINESS PLANNING	3060
<i>I. Puebla, R. Ayestarán</i>	
ON THE IMPROVEMENT OF A PROGRAMMING GYMKHANA FOR PYTHON SELF-LEARNING	3068
<i>B. Remeseiro, G. Cebrián-Márquez, A.J. Díaz-Honrubia, N. Rico, J.R. Villar, E.A. de la Cal, P. Suárez-Otero</i>	
FINEXT 2020: DESIGNING INNOVATIVE ACTIONS BASED ON PAST EXPERIENCES AND PROJECTS	3077
<i>G. Cebrián-Márquez, E.A. de la Cal, A.J. Díaz-Honrubia, R. Mencía, B. Remeseiro, N. Rico, P. Suárez-Otero, J.R. Villar, R. Zurita</i>	
THE IMPACT OF VIRTUAL REALITY SIMULATORS IN MANUFACTURING INDUSTRY	3084
<i>N.A. Tocu, A. Gellert, I.R. Stefan, T.M. Nătescu, G.A. Luca</i>	
GAMIFICATION AND TEACHING INNOVATION TECHNIQUES APPLIED TO LAST YEAR STUDENTS IN THE DEGREE IN INTERNATIONAL RELATIONS: THE USE OF BRAINSTORMING PROMPT AND SPEED-DATING	3094
<i>M. Medina</i>	
SYSTEMATIC METHODOLOGY FOR THE DESIGN OF GAMIFICATION ACTIVITIES AND APPLICATION TO ENGINEERING DEGREES AS ACTIVE LEARNING TOOL	3099
<i>D. Ranz, B. Peña, M. Alegre</i>	
STUDYING BASIC CONCEPTS AS THE FRAMEWORK OF SECOND LANGUAGE ACQUISITION FOR BILINGUAL STUDENTS	3110
<i>I. Balandina, A. Soiridova, Y. Nikitina, L. Yuzdova, T. Moskvitina</i>	
JEOPARDIZING CHILDREN'S FUTURE? GERMAN KINDERGARTEN TEACHERS' BELIEFS ON LITERACY EDUCATION	3116
<i>R. Tkotzyk</i>	
LEARNING INDUSTRIAL SYMBIOSIS IN EDUCATIONAL EXPERIMENTAL FARMS, A WAY FOR MOVING TOWARDS A CIRCULAR ECONOMY	3126
<i>G. Cervantes</i>	
THE USE OF MICRO-VIDEOS AS A TOOL FOR DISSEMINATING RESEARCH RESULTS: AN APPLICATION IN HUMAN RESOURCES MANAGEMENT FIELD	3132
<i>J. De Frutos-Belizón, S. Fernández-Perez de la Lastra, N. García-Carbonell, F. Guerrero-Alba, F. Martín-Alcázar, J.L. Perea-Vicente, M. Ruíz-Martínez, G. Sánchez-Gardey</i>	
APPLICATION OF A CASE STUDY METHODOLOGY. STUDY DESIGN AND IMPLEMENTATION FOR A MULTIDISCIPLINARY GROUP	3138
<i>D. Ranz, L. Remón, R. Sanz-Segura, J. Ares</i>	
@CHECK – A MODERN CLASS ATTENDANCE CHECKING TOOL	3144
<i>K. Jassem, J. Paliwoda, B. Wierzbński</i>	
COLLABORATIVE WIKI DIDACTICS FOR BLENDED LEARNING: DEFINITION AND THE CASE OF NEW EXPERIMENTAL COURSE FOR LINGUISTS AND TRANSLATORS	3153
<i>I. Vasilyeva</i>	
EXPERIENCES FROM FORMATIVE LEARNING ASSESSMENT SUPPORTED BY DIGITAL TOOLS	3161
<i>K. Åberg, M. Johansson, M. Wetterstrand, K. Ådahl, M. Faraon, A. Mello, K. Rönkkö</i>	

USING WEBINARS WITHIN AN E-LEARNING PROGRAMME TO TEACH MEDICAL STUDENTS ACROSS CLINICAL PLACEMENTS: EXPERIENCES AT MANCHESTER MEDICAL SCHOOL	3172
<i>N. Patel, K. Wilson, R. Parikh</i>	
APPROACHING THE FINAL YEAR OF BUSINESS ADMINISTRATION AND MANAGEMENT STUDENTS TO THE BUSINESS REALITY	3173
<i>J. De Frutos-Belizón, S. Fernández-Pérez de la Lastra, N. García-Carbonell, F. Guerrero-Alba, F. Martín-Alcázar, J.L. Perea-Vicente, M. Ruíz-Martínez, G. Sánchez-Gardey</i>	
CONTINUOUS, PARTICIPATORY AND PROGRESSIVE EVALUATION IN MEDICAL TEACHING: EXPERIENCE WITH THE UNIVERSITY OF VALENCIA'S VIRTUAL CLASSROOM QUESTIONNAIRE	3179
<i>T. Civera, M.D. Barrachina, S. Calatayud, S. Martínez-Hervás, A. Álvarez, D. Ortiz-Masià</i>	
APPLICATION OF CHATBOTS IN HIGHER EDUCATION ENVIRONMENT	3184
<i>R. Picek</i>	
COMPARATIVE ANALYSIS OF STUDENTS' ACCEPTANCE OF LEARNING ERP SOLUTIONS	3195
<i>S. Sternad Zabukovšek, R. Picek</i>	
THE EFFECT OF MOBILE PHONE BAN IN SCHOOLS ON THE EVALUATION OF CLASSROOM CLIMATE	3204
<i>S. Dobešová Cakirpaloglu, T. Čech, M. Maléřová, H. Adámková</i>	
DEVELOPING A VIRTUAL PROFESSIONAL LEARNING COMMUNITY FOR ONLINE FACULTY	3213
<i>A. Belcher, J. Robinson, K. Olson-Stewart, A. Rief</i>	
REDESIGNING THE PINHOLE CAMERA: AN EXERCISE ABOUT HOW TO DEVELOP AN "ECOBJET" FOR CREATING "BIOIMAGES"	3225
<i>T. Pinho, T. Assis</i>	
THE INTEGRATIVE MODEL FOR THE FORMATION OF THE LINGUISTIC AND CULTURAL COMPETENCE OF FOREIGN STUDENTS OF NATURAL SCIENCES AND TECHNICAL SPECIALTIES	3235
<i>I. Kalinina, Y. Tugova, V. Abyshkina, L. Alekseeva, S. Pudovkina</i>	
INNOVATING LED-LIGHTING FIXTURE DESIGN THROUGH A LEARNING LIGHTING BY MAKING APPROACH	3241
<i>D. Casciani</i>	
CLIL (CONTENT AND LANGUAGE INTEGRATED LEARNING): CASE OF LEGAL STUDIES	3251
<i>A. Schneiderova</i>	
TARGET GROUP ORIENTED TEACHING OF LEGAL TERMINOLOGY	3259
<i>A. Schneiderova</i>	
DEVELOPING THE LABORATORY MODELS FOR WIRELESS ENERGY TRANSMISSION	3270
<i>D. Srpak, I. Šumiga, J. Srpak, E. Dumic</i>	
ROBOTIC TOYS AND KITS IN PRIMARY SCHOOL EDUCATION	3275
<i>H. Hyksová</i>	
TPACK INSTRUCTIONAL DESIGN MODEL IN VIRTUAL REALITY FOR DEEPER LEARNING IN SCIENCE AND HIGHER EDUCATION: FROM "APATHY" TO "EMPATHY"	3286
<i>M. Fragkaki, S. Mystakidis, I. Hatzilygeroudis, K. Kovas, Z. Palkova, Z. Salah, G. Hamed, W.M. Khalilia, A. Ewais</i>	
MODEL OF BLENDED COLLABORATIVE WIKI DIDACTICS: THE CASE OF WIKI LMS COURSE IN APPLIED LINGUISTICS AT MASTER'S LEVEL. FROM STUDENT-CENTERED TO STUDENTS' CO-PARTNERS?	3293
<i>I. Vasilyeva</i>	
SERVICE-LEARNING AS A METHODOLOGY TO ACHIEVE SUSTAINABLE DEVELOPMENT GOALS: EXPERIENCE WITH THE CLINICAL NEUROLOGY SUBJECT IN THE DEGREE OF SPEECH THERAPY	3303
<i>T. Civera, M.D. Barrachina, S. Martínez-Hervás, S. Calatayud, A. Álvarez, D. Ortiz-Masià</i>	
BYOD (BRING YOUR OWN DEVICE) - STUDENT FACILITIES IN TEACHING AT PRIMARY SCHOOLS	3308
<i>H. Hyksová</i>	
VIRTUAL LIBRARY – E-CONTENT MANAGEMENT SOLUTION FOR PUBLIC INSTITUTIONS	3314
<i>A.M. Udrouiu, M. Dumitrache, I. Sandu</i>	

A FOSSIL IN MY SCHOOL: A 3D PILOT EXPERIENCE IN PRIMARY EDUCATION <i>C. Castillo Ruiz, P. Cruzado-Caballero, M. Afonso-González</i>	3320
MANDARIN PROSODY BOUNDARY PREDICTION FOR IMPROVING MANDARIN LEARNING OF NON-NATIVE SPEAKERS <i>H. Yang, Y. Yan, J. Jiang</i>	3328
E-LEARNING AND TEACHING STRATEGIES OF UNIVERSITY TEACHERS. A CASE STUDY IN THE TEACHING OF SPANISH AS A SECOND LANGUAGE IN SLOVAKIA, POLAND AND THE USA <i>E. Reichwalderová, C. Dimeo</i>	3335
SYSTEMATIC DESIGN OF ACID-BASE TITRATIONS FOR UNDERGRADUATE STUDENTS: APPLICATION TO THE RESOLUTION OF A MIXTURE OF TWO AMINO ACIDS <i>I. de la Calle, I. Lavilla, F.J. Pena, V. Romero, C. Bendicho</i>	3341
SMART FARMING IN ALPINE REGIONS <i>C. Bernsteiner, T. Dilger, C. Ploder</i>	3347
EVALUATION OF INDICATORS OF ACADEMIC PERFORMANCE AND LABOR INSERTION OF GRADUATES FOR DEGREE IN PHARMACY: MAKING PROGRESS TOWARDS A QUALITY FUTURE <i>M. Romero Perez, R. Navarrete Casas, J.M. Paredes Martínez, B. Clares Naveros, M.J. Muñoz Alférez, M.A. Huerta Martínez, M. Sánchez Polo, A.I. Del Moral García, O. Cruz-López</i>	3356
DESIGNING AND DEVELOPING A RUBRIC FOR TECHNOLOGY ENHANCED LEARNING IN HIGHER EDUCATION <i>D. D'Cruz</i>	3363
THE CONTEXT OF MATHEMATICAL TASKS AS AN ASSUMPTION OF THEIR SUCCESSFUL SOLUTION <i>R. Dofková, E. Tauferová</i>	3374
TUTORGRADOS 2.0, AN INNOVATIVE PROJECT ORIENTED TO STUDENTS WITH EDUCATIONAL NEEDS <i>R. Navarrete Casas, E.M. Talavera Rodríguez, M. Romero Perez, J.M. Paredes Martínez, R.J. Giménez Martínez, M.J. Ruedas Rama, A. Conejo García, J.M. González Pérez, E. García Fernández, J.A. González Vera, C. Monteaúdo Sánchez, P. Bouzas, M. Sánchez Polo, M.C. González García, F.J. Vasco Martín, E. González Muñoz, C.F. García Jiménez, E. Rebollo García, S. Páez Yépez, M.A. Huerta Martínez, M.J. Muñoz Alférez</i>	3379
THE INTEGRATION OF THE GENDER PERSPECTIVE IN THE TEACHING OF HUMAN ANATOMY <i>E. Ausó Monreal, V. Gómez Vicente</i>	3386
DEVELOPING COMMUNICATION SKILLS THROUGH AUGMENTED AND VIRTUAL REALITY APPS ON SMART DEVICES <i>D. Tran, M. Pytlik, K. Kostolányová</i>	3387
DEVELOPMENT LEVEL DETERMINATION OF AXIOLOGICAL ATTITUDE TO EDUCATION OF FIRST AND SECOND YEAR STUDENTS AT SOUTH URAL STATE UNIVERSITY <i>E. Kiriakova, I. Levina, E. Ponomareva, S. Sanochkina</i>	3395
SOFTWARE POSSIBILITIES OF CREATING MODELS FOR 3D PRINTING IN THE LEARNING PROCESS AT SECONDARY SCHOOLS <i>R. Loskot, J. Loskot</i>	3400
VISUAL TEACHING OF COMMAND-LINE PROGRAMMING <i>K. Jassem, D. Grajewska</i>	3408
PEDAGOGICAL INNOVATION THROUGH ACTIVE LEARNING PRACTICES USING DIGITAL TOOLS - A CASE STUDY IN TOURISM DEGREES <i>C. Rafael, P. Cardoso</i>	3418
APPLICATION OF PROJECT-BASED EDUCATION IN PEDAGOGICAL PROCESS AT SECONDARY TECHNICAL SCHOOLS <i>R. Loskot, J. Loskot, J. Vopršal</i>	3426
CO-CREATION IN THE DESIGN AND DEVELOPMENT OF EDUCATIONAL TOURISM: THE CLOUDLEDGE SYSTEM <i>D. Pappa, C. Manolitsis, C. Makropoulos, V. Pitsilis</i>	3433
TESTING OF AN INTERVENTION TO PROMOTE STUDENTS' INTENTION REGARDING STEM CELL DONATION <i>J. Holzer, D. Elster</i>	3440
EDUCATIONAL PROJECTS EVALUATION <i>P. Fanta, L. Mynařková, L. Dobrucká</i>	3449

CURRICULUM DEVELOPMENT FRAMEWORK: A TOOL FOR INNOVATIVE PROGRAMME DEVELOPMENT	3455
<i>P. Stynes, P. Pathak</i>	
TEACHERS AND LEADERS COLLABORATING ON A STRATEGIC RESEARCH APPROACH TO THE USE OF EDUCATION TECHNOLOGY IN THEIR SCHOOL	3466
<i>B. Mannova, C. Preston, S. Younie</i>	
THE TRAINING OF EDUCATIONAL ASSISTANCE SPECIALISTS IN THE CONTEXT OF COPING WITH OCCUPATIONAL STRESS	3472
<i>D. Alifanoviene, O. Sapelyte</i>	
"DRAWING WITH CODE": THE EXPERIENCE OF TEACHING CREATIVE CODING AS A SKILL FOR COMMUNICATION DESIGNERS	3478
<i>A. Benedetti, T. Elli, M. Mauri</i>	
THE PROFESSIONAL IMAGE OF SOCIAL PEDAGOGUES: HOW TO IMPROVE TRAINING PROGRAMS?	3489
<i>O. Sapelyte, D. Alifanoviene</i>	
THE SI! PROGRAM FOR PROMOTING HEART-HEALTHY HABITS IN CHILDREN AGED 3 TO 5 YEARS: PEDAGOGICAL STRATEGIES	3490
<i>V. Carral Bielsa, C. Rodríguez, X. Orrit, D. Haro, G. Santos-Beneit, P. Bodega, I. Carvajal, A. Álvarez-Benavides, J.L. Peñalvo, J.M. Fernández-Alvira, R. Fernández-Jiménez, B. Ibáñez, V. Fuster</i>	
HOW DO UNIVERSITY STUDENTS CYBERBULLY TEACHERS ON INSTAGRAM?	3500
<i>P. Ambrožová, M. Kaliba</i>	
MATERIALIZED FORM OF THE ASSESSMENT OF CONFIDENCE IN THE PERFORMANCE OF MATHEMATICAL KANGAROO TASKS FOR STUDENTS AGED 8-12: GENDER DIFFERENCES	3509
<i>S. Churbanova, M. Martynovsky</i>	
PEDAGOGICAL TECHNOLOGIES IN TEACHING RUSSIAN TO A CROATIAN-SPEAKING AUDIENCE	3518
<i>N.N. Koneva, A. Zalović</i>	
TRUST AS THE DETERMINANT THAT AFFECTS SEXTING	3525
<i>V. Poláčková, J. Hanuliaková, K. Hollá</i>	
THE HISTORY OF HUMAN CAPITAL MEASUREMENT AS MEANS OF INCREASING STUDENTS' APPRECIATION OF HUMAN CAPITAL IN SOFTWARE PROJECTS – A FIRST LITERATURE MAPPING	3532
<i>T. Dilger, C. Ploder, R. Bernsteiner, P. Tomasini</i>	
ONLINE ADDICTION AMONG UNDERGRADUATE STUDENTS OF EDUCATION	3539
<i>P. Ambrožová, M. Kaliba</i>	
TEACHING INNOVATION EXPERIENCE AT THE UNIVERSITY: THE IMPLICATION OF THE STUDENT IN THE EVALUATION FROM DIFFERENT PERSPECTIVES	3546
<i>E. Gonzalez Araujo, R. Vélez de Miguel</i>	
REDUCING WASTE IN THE FACULTY OF ENGINEERING OF VITORIA-GASTEIZ (UPV/EHU) TO CREATE A MORE SUSTAINABLE CAMPUS	3555
<i>N. Rojo, A. Saralegi, O. Aldecoa, J. Álvarez, Z. Gómez-de-Balugera</i>	
PROFESSIONAL LEARNING THROUGH COLLABORATIVE ONLINE INTERNATIONAL LEARNING	3564
<i>S. Swartz, B. Barbosa, I. Crawford, S. Luck</i>	
APOLLONIUS' PROBLEMS IN SECONDARY EDUCATION USING ICT	3572
<i>D. Nocar, R. Dofková</i>	
THE FLIPPED CLASSROOM MODEL IN ENGINEERING THERMODYNAMICS: COMPARISON OF EXPERIENCES IN DIFFERENT BACHELOR DEGREES	3581
<i>B. Peña, M. Bailera, I. Zabalza, B. Zalba</i>	
BIM TECHNOLOGY IN ARCHITECTURAL PROJECTS	3591
<i>M. Valiente López, N. Leon Martínez, M.C. Sanz Contreras</i>	
BACHELOR'S THESIS FOR A SUSTAINABLE FUTURE: REDUCTION OF WATER, ELECTRICITY AND GAS CONSUMPTION IN THE FACULTY OF ENGINEERING VITORIA-GASTEIZ (UPV/EHU)	3599
<i>I. Tazo, M. Jiménez-de-Aberasturi, A. Saralegi, J. Álvarez, N. Rojo</i>	
A NEW METHODOLOGY TO INCREASE THE EFFECTIVENESS OF USING CONCEPT MAPS MADE WITH CMAPTOOLS TO HELP THE STUDENTS ACHIEVE MEANINGFUL LEARNING. EXEMPLIFICATION WITH A CONCEPT MAP ON ATOMIC MODELS	3605
<i>M.I. Suero López, A.L. Pérez Rodríguez, P.J. Pardo Fernández, C. Cuenca Lorenzo</i>	

INTERACTIVE PROMOTION OF STEM UNIVERSITY DEGREES AMONG HIGH SCHOOL STUDENTS	3612
<i>A.B. Socorro, I. Picallo, P. Lopez Iturri, S. Diaz, F. Falcone</i>	
RUBRIC-BASED ASSESSMENT PROCEDURE FOR MONITORING AND LEARNING PURPOSES IN ENGINEERING THERMODYNAMICS	3618
<i>B. Peña, M.P. Lisbona</i>	
DO GLOBAL VIRTUAL TEAMS PROJECTS BENEFIT STUDENTS? THE ANSWER IS YES!	3626
<i>S. Swartz</i>	
THE EFFECT OF UNIVERSITY STUDENTS' PERSONALITY STRUCTURE ON PERCEIVED ACADEMIC STRESS	3634
<i>L. Křeménková, I. Plevová, M. Pugnerová, E. Sedláková</i>	
PERCEIVED ACADEMIC STRESS IN THE UNIVERSITY ENVIRONMENT	3643
<i>I. Plevová, L. Křeménková, M. Pugnerová, A. Chytilová</i>	
THE RELATION OF SELF-ESTEEM ON RISK BEHAVIOUR AMONG EMERGING ADOLESCENTS	3651
<i>S. Dobešová Cakirpaloglu, T. Čech, V. Štenclová</i>	
GENDER RATIO IN ACADEMIA AND RESEARCH IN BULGARIA	3658
<i>R. Doneva, S. Gaftandzhieva, K. Boykova</i>	
THE CONTRIBUTION OF ASSESSMENT IN A WORK SITUATION TO THE VALIDATION OF THE EDUCATIONAL PATHWAY	3668
<i>C. Meyer, G. Catuli, A. Henni</i>	
ASSESSMENT OF SOCIAL-PSYCHOLOGICAL INDICATORS BY SCHOOL STUDENTS WITH DIFFERENT GENDER IDENTITIES	3669
<i>E. Breus, G. Kozhukhar</i>	
COMBINING DISTRIBUTED CLOUD ARCHITECTURE AND MOBILE TECHNOLOGIES AND APPLICATIONS FOR MORE EFFICIENT MANAGEMENT AND CONTROL OF THE EDUCATIONAL AND RESEARCH ACTIVITIES	3676
<i>A. Nachev, D. Pavlova</i>	
USING SOCRATIVE TO ENHANCE ACTIVE LEARNING AND ASSESSMENT IN ANALYTICAL CHEMISTRY: A CRITICAL SURVEY	3681
<i>M.J. Lerma-García, M. Vergara-Barberán, E.J. Carrasco-Correa, F.A. Esteve-Turrillas, S. Armenta, M.L. Cervera, E.F. Simó-Alfonso, J.M. Herrero-Martínez</i>	
OPPORTUNITIES FOR EFFECTIVE DIGITALIZATION OF THE ADMINISTRATIVE SERVICES IN A UNIVERSITY ENVIRONMENT AND IMPROVEMENT OF THE MANAGEMENT ECOSYSTEM THROUGH PROCESSES REENGINEERING	3691
<i>A. Nachev, P. Gindev, D. Pavlova</i>	
EDUCATIONAL MULTIMODAL DATA MINING AND FUSION THROUGH KNOWLEDGE GRAPHS FOR TOPIC-RELATION EXTRACTION IN STUDY RECOMMENDATIONS	3696
<i>S. Tomar, H. Abu Rasheed, M. Fathi</i>	
PROSPECTS OF THE COOPERATION IN FRAMEWORK OF THE FRENCH-RUSSIAN UNIVERSITY IN THE CONTEXT OF THE CRISIS OF MODERN HUMANITIES	3706
<i>M. Moseykina, E. Linkova, A. Golovkin, V. Morzheedov</i>	
TEACHING AND COACHING MILLENNIALS WITH APPS	3710
<i>A. Henni, S. Mercier</i>	
INNOVATIVE LEARNING MODELS TO MASTER THE DIGITAL TRANSFORMATION IN THE AUDIT PROFESSION	3717
<i>M. Canipa-Valdez, F. Grimberg</i>	
CAREER DEVELOPMENT PREFERENCES OF UNIVERSITY STUDENTS	3722
<i>E. Nacházelová, A. Reissová</i>	
TRANSMEDIA STORYTELLING RESEARCH PARADIGMS AND PRACTICES IN LATIN AMERICA AND SPAIN: AN INTERVIEW WITH ACADEMIC DIRECTORS AND EXPERTS	3730
<i>G. Gomero Correa, D. Barredo Ibañez, J. Hernández Ruiz</i>	
HIGHER EDUCATION INSTITUTIONS AS CORPORATE SOCIAL RESPONSIBILITY DRIVERS: TEACHING AND LEARNING TO TRANSFORM THE WORLD	3735
<i>S. Gomes, M. Nogueira, C. Neves</i>	
MODEL FOR QUALITY EVALUATION IN SECONDARY EDUCATION	3745
<i>M. Docheva, S. Gaftandzhieva, R. Doneva, G. Totkov</i>	

THE PERCEPTION OF SCHOOL CLIMATE BY ELEMENTARY SCHOOL HEADMASTERS	3756
<i>T. Čech, S. Dobešová Cakirpaloglu, V. Štenclová</i>	
THE BASIC PRINCIPLES OF DESIGNING A QUALITY MANAGEMENT SYSTEM IN EDUCATION INSTITUTIONS OF PROFESSIONAL FIELD OF POLICE AND BORDER GUARDS	3765
<i>I. Zalitis, S. Ignatjeva, J. Davidova, I. Kokina</i>	
IMPROVING FLIPPED LEARNING THROUGH GAMIFICATION	3774
<i>M. Gimenez, M.V. Sandin-Vazquez</i>	
ONLINE DISCLOSURE OF HIGHER EDUCATION INSTITUTIONS' SOCIAL RESPONSIBILITY	3785
<i>M. Nogueira, S. Gomes, C. Neves</i>	
THE DEVELOPMENT OF COGNITIVE EMPATHY AND COLLABORATIVE BEHAVIOUR THROUGH TRAINING IN DRAMA PEDAGOGY	3791
<i>M.P. Celume, F. Zenasni</i>	
CREATIVE TECHNIQUES APPLIED TO ENGINEERING SUBJECTS	3792
<i>F. Seculi, F. Julián, X. Espinach, M. Alcalá</i>	
CHALLENGES OF CREATING A MODEL FOR IMPROVING THE COMPETENCES OF VOCATIONAL TEACHERS: A CROATIAN PERSPECTIVE	3799
<i>V. Kirinić, V. Anđelić, Z. Bačelić</i>	
METHODOLOGY FOR DEVELOPING LEARNING MATERIALS FOR A WEB-BASED ADAPTIVE LANGUAGE LEARNING SYSTEM	3810
<i>V. Slavuj</i>	
UNDERSTANDING STUDENTS' NEW WAYS OF COMMUNICATING	3820
<i>M. Myers</i>	
ELABORATION OF A MULTIMEDIA BOOK ON THE IMPORTANCE OF STATISTICS AND PRESENTATION OF THE INFORMATION FOR THE STATISTICAL SUBJECTS TAUGHT AT THE FESC	3825
<i>M. Pineda Becerril, O. García León, A. Aguilar Márquez, F. León Rodríguez</i>	
STUDENTS' FEEDBACK ON THE USE OF EDUCATIONAL VIDEOS TO SUPPORT THE STUDY OF THERMODYNAMICS	3832
<i>I. Zabalza, M. Aznar, J. Uche, B. Zalba, B. Peña, J.M. Marín, E.M. Llera, S. Usón</i>	
IMPROVEMENT OF THE LABORATORY SKILLS ON FIRST-YEAR ENGINEERING STUDENTS AT THE UNIVERSITY OF THE BALEARIC ISLANDS (SPAIN) BY CHANGING SOME TEACHING STRATEGIES OF THE LABORATORY LESSONS	3841
<i>R. Santamarta, J. Torrens-Serra, M.A. Jiménez, M. Conde</i>	
DEVELOPMENT AND USAGE OF OPEN EDUCATIONAL RESOURCES AMONG TEACHERS	3849
<i>S. Rako, S. Kucina Softic</i>	
FORUM USAGE IN MASSIVE OPEN ONLINE COURSES ON THE EXAMPLE OF A PROGRAMMING COURSE "ABOUT PROGRAMMING"	3855
<i>R. Suviste, H.L. Reponen, E. Tönnisson, M. Lepp, P. Luik</i>	
GENDER VIOLENCE IN SOCIAL NETWORKS	3865
<i>R. Caramutti, C. Villaseca</i>	
THE FIFTH ROLE OF CHILDREN TAKING PART IN A CHILD CENTERED DESIGN PROCESS	3876
<i>K. Stoeckelmayr, M. Tesar</i>	
FACTORS THAT LEAD TO STUDENTS' BURNOUT- DIFFERENCE IN BURNOUT LEVELS AMONG MALE AND FEMALE AVIATION STUDENTS AND OTHER STUDENTS FROM UNIVERSITIES ACROSS THE U.A.E	3884
<i>R.A. Bernabeo, S. Dev, K. Webster</i>	
USABILITY EVALUATION FOR ELICITATION OF REQUIREMENTS – AN OPPORTUNITY FOR KINDERGARTEN CHILDREN TO DEVELOP COMPETENCES IN COMPUTER SCIENCE	3893
<i>M. Tesar, K. Stoeckelmayr</i>	
SOCIODEMOGRAPHIC PROFILE OF CONCLUDING STUDENTS OF HIGHER EDUCATION IN BRAZIL IN 2017	3900
<i>A. Bezerra, M.C. Aguirre, W. Silva, G. Carvalho, M.X. Aguirre, W. Costa, M. Santi, B. Silva, V. Lima, E. Costa</i>	
INFORMATIONAL ASPECTS OF DIGITAL LITERACY	3910
<i>J. Škoda, L. Luić, E. Brlek</i>	

COMPLEX COMMUNICATION NEEDS AND MINORITY DISEASES NETWORK: AN EXAMPLE OF COLLABORATION BETWEEN PROFESSIONALS	3917
<i>M. Calleja, E. Postigo</i>	
COMPARISON OF HIGHER EDUCATION IN QUANTUM COMPUTING ACROSS EUROPE WITH SPECIAL EMPHASIS ON THE CZECH REPUBLIC	3922
<i>J. Glivická</i>	
MATHEMATICS TEACHING IN CENTRAL EUROPEAN REGION AND ITS INFLUENCERS	3927
<i>M. Knetova, T. Kmet</i>	
THE USE OF SOCIAL NETWORKS AS A PLATFORM FOR THE FLIPPED CLASSROOM IN UNIVERSITY EDUCATION: A CASE STUDY	3933
<i>E. Isidori, M. De Martino, F. Taddei, I. Sandor</i>	
PHARMACY STUDENT'S ENGAGEMENT, PERFORMANCE AND PERCEPTIONS IN A FLIPPED TEACHING PILOT ON INTRODUCTION TO THE GALENIC PHARMACY SUBJECT	3941
<i>A. Nardi Ricart, M. Oliva Herrera, R. Aparicio Pelegrín, J. Suñer Carbó, A. Viscasillas Clerch, L. Halbaut Bellowa</i>	
IDENTIFYING HIGH SCHOOL STUDENTS' CONCEPTIONS OF ACCELERATION IN RECTILINEAR MOTION USING COMPUTER-ASSISTED SCIENTIFIC INVESTIGATION	3947
<i>L. Trudel, A. Métioui</i>	
DESIGN AND IMPLEMENTATION OF AN EXPERIENTIAL APPROACH TO TRAINING SCIENCE TEACHERS IN FRENCH-SPEAKING MINORITY COMMUNITIES: RESULTS OF THE THIRD PHASE OF A THREE-PHASE DESIGN RESEARCH PROJECT	3957
<i>L. Trudel, A. Métioui</i>	
DEFINITION OF PROJECT-BASED LEARNING MODELS IN THE COMPUTER ENGINEERING DEGREE	3966
<i>J. Esparza-Peidro, E. Golf-Laville, J. Izquierdo-Domenech, J.V. Tomás-Miquel, R. Sanchis</i>	
TOWARDS INTER-SUBJECT PROJECT-BASED LEARNING IN PROGRAMMING-RELATED COURSES AT COMPUTER SCIENCE STUDIES	3973
<i>J. Linares-Pellicer, J. Orta-López, J. Salavert-Torres, M.J. Segura-Flor, J.A. Silvestre-Cerdà, R. Sanchis</i>	
MODEL DESIGN AND CALCULATION WITH POLYMERIC AND COMPOSITE MATERIALS THROUGH PROJECT-BASED LEARNING	3979
<i>R. Balart, N. Montanes, L. Quiles-Carrillo, S. Jorda, H. Sanchis, R. Sanchis</i>	
A METHODOLOGICAL APPROACH FOR ALPINE VILLAGES VALORISATION: METADESIGN BOARDS AND SYNOPTICAL TABLE	3987
<i>F. Maroldi, N. Colnaghi, D. Covi</i>	
THE SUSTAINABLE DEVELOPMENT GOALS (SDGS) APPLIED TO HIGHER EDUCATION. A PROJECT-BASED LEARNING PROPOSAL INTEGRATED WITH THE SDGS IN BACHELOR DEGREES AT THE CAMPUS ALCOY (UPV)	3997
<i>M. Pérez-Sánchez, M. Díaz-Madroñero, J. Mula, R. Sanchis</i>	
APPLICATION OF A PBL TO SUBJECTS OF ENGINEERING IN DEGREE AND MASTER	4006
<i>M. Fuentes Conde, M. Vivar García</i>	
THE SCIENCE OF LIGHT AND COLOUR TAUGHT BY EXAMINING REALISTIC ARTWORKS: ENRICHING STEM EDUCATION THROUGH ART	4013
<i>T. Antimirova</i>	
EMPOWERING DIGITAL AND MEDIA LITERACY OF PRIMARY SCHOOL TEACHERS IN LATVIA	4022
<i>L. Valdmane, S. Zariņa, J. Badjanova, D. Iliško, M. Petrova</i>	
OPEN ACCESS AS AN EDUCATIONAL FRAMEWORK, CHALLENGE AND APPROACH / TRENDS IN TEACHING SMALL LANGUAGES	4030
<i>K. Čerbová, O. Čerba, B. Špádová</i>	
"AGILEDU", AGILE METHODOLOGY APPLIED TO VOCATIONAL EDUCATION, COMPUTER SCIENCE, INFORMATION AND COMMUNICATION TECHNOLOGIES	4036
<i>A. Muñoz Fuertes, D. Chinarro, M.L. Sierra Huedo</i>	
SLOVAK TEACHERS AND THEIR TEACHING COMPATRIOTS. SIMILARITIES AND DIFFERENCES	4046
<i>S. Karikova, A. Douskova, M. Valent, D. Smalley</i>	
KEY HR COMPONENTS TO IMPROVE IT UNIT OPERATIONS	4052
<i>N. Brown, K. Anderson, T. Clark, H. Aubrey, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron</i>	

PRESCHOOL TEACHERS' PERCEPTIONS OF EXISTING EDUCATIONAL CONDITIONS AND OPPORTUNITIES FOR PARTICIPATION IN PROFESSIONAL DEVELOPMENT PROGRAMS	4059
<i>R. Čepić, P. Pejić Papak, L. Marijan</i>	
CONSIDERING THE EDUCATIONAL NEEDS, CONDITIONS, AND OPPORTUNITIES IN THE CONTEXT OF TEACHERS' PROFESSIONAL DEVELOPMENT	4068
<i>R. Čepić</i>	
EFFECT OF A NOVEL PBL-TRADITIONAL LEARNING STRATEGY ON STUDENTS' KNOWLEDGE ACQUISITION IN PATHOPHYSIOLOGY. A PRE-TEST AND POST-TEST STUDY	4075
<i>V.S. Fernandes, M. Hernández-Martín, C. Contreras, M. Muñoz-Picos, C. Rodríguez-Prados, A. Agis, A. Sánchez, B. Climent, P. Recio, R. Raposo, S. Benedito, A. García-Sacristán, L. Rivera, D. Prieto, M. Hernández, M.E. López-Oliva</i>	
READING LITERACY AND THE CLASSROOM CLIMATE	4084
<i>H. Blažková, M. Fasnerová</i>	
TEACHING MATHEMATICS IN THE 1ST AND 2ND CYCLE OF BASIC EDUCATION WITH THE INTERACTIVE MULTIMEDIA BOARD	4089
<i>A.P. Aires, J. Escola, N. Lopes</i>	
SOCIAL NETWORKS AND IN-SERVICE TRAINING OF ITALIAN TEACHERS: A CASE STUDY	4099
<i>E. Isidori, N.V. Poplavskaya, M. De Martino, I. Novikova</i>	
PHOTOGRAPHY AND DIGITAL ICT: A BLENDED LEARNING MODEL AIMED AT DESIGN COURSES	4109
<i>A.L. Oliveira do Amaral, B. Santos Gonçalves, L.M. Moraes</i>	
COURSEWARE USABILITY FOR DEAF STUDENTS: A TEST USING EYE TRACKING	4120
<i>L.M. Moraes, A. Gobbi, B. Santos Gonçalves, A.L. Oliveira do Amaral, E. Merino, G. Merino</i>	
THE EFFECT OF VERTICAL GREENERY SYSTEMS AND GREEN ROOFS TECHNOLOGY ON COMMERCIAL AND ACADEMIC BUILDINGS	4133
<i>M. Manouchehri, M. Valiente López, J. Santiago López</i>	
OPEN EDUCATIONAL RESOURCES FOR THE STRENGTHENING OF DIGITAL COMPETENCES IN HIGHER EDUCATION	4143
<i>J. Delgado, R. Samaniego, J. Salinas, M. Acosta, A. Avila</i>	
INFOGRAPHICS AS A PEDAGOGICAL INSTRUMENT FOR DEALING WITH CHILDREN WITH HEARING LOSS	4149
<i>J.C. Delgado, M. Iñiguez, C. Garcia, W. Cuenca, G. Ordoñez, G. Rodas</i>	
SYNCHRONOUS ONLINE TEACHING AND LEARNING: OPPORTUNITIES AND CHALLENGES – AN EXPERIENCE FROM A GENETICS LABORATORY CLASS	4156
<i>K.M. Yam</i>	
COMMUNITY DIGITAL LITERACY PROJECT: A SPACE TO STRENGTHEN COMMUNITY INCLUSION	4164
<i>J. Valarezo, J.C. Delgado, M. Acosta, A. Avila, K. Guaicha</i>	
INTERRELATION BETWEEN ACADEMIC PERFORMANCE OF STUDENTS AND THEIR PERSONAL LEARNING ENVIRONMENT IN A SOCIAL NETWORK	4170
<i>A. Feshchenko, V. Kashpur, V. Goiko, T. Kabanova, A. Litvinova</i>	
PROMISING STRATEGIES FOR POPULARIZING SCIENTIFIC PSYCHOLOGICAL AND PEDAGOGICAL KNOWLEDGE AMONG TEACHERS	4177
<i>D. Ilyasov, N. Yarychev, A. Khokhlov, K. Burov</i>	
GAMEMAKER AS AN INSTRUMENT TO CREATE EDUCATIONAL RESOURCES BASED ON GAME ELEMENTS	4185
<i>M. Acosta, R. Cabrera, J. Montaguano, W. Leon, J. Morocho, A. Toala</i>	
THE VIRTUAL LEARNING ENVIRONMENT AS AN EDUCATIONAL RESOURCE FOR TEACHING BIOLOGY IN SECONDARY EDUCATION	4193
<i>J. Valarezo, R. Paucar, O. Santos, K. Guaicha, C. Loaiza, D. Delgado</i>	
PROMOTING TEACHING PROBLEM SOLVING SKILLS IN CHEMICAL REACTORS DESIGN	4198
<i>V. Sebastian, L. Garcia</i>	
USE OF DIGITAL PICTOGRAMS AS A TEACHING STRATEGY TO STRENGTHEN THE READING PROCESS OF STUDENTS IN BASIC GENERAL EDUCATION	4199
<i>K. Guaicha, J.C. Delgado, A. Coello, A. Rivera, A. Yaure, H. Quevedo</i>	
PROJECT-BASED LEARNING IN THE CARLOS CISNEROS HIGHER TECHNOLOGICAL INSTITUTE	4205
<i>C. Orozco, L. Rentería, F. Jara</i>	

ICT ADVANCED SKILLS DEVELOPMENT – LINK BETWEEN EDUCATION AND RESEARCH	4214
<i>A.M. Udrouiu, I. Sandu, M. Dumitrache</i>	
INFLUENCE OF INTERACTIVE DESIGN SOLUTIONS ON URBAN SPACE DEVELOPMENT	4219
<i>V. Zvirble, J. Daveiko, R. Valujaviciene</i>	
INSTITUTION-WIDE CURRICULUM RENEWAL: ENHANCING ACADEMIC PROGRAMMES THROUGH COLLABORATIVE SENSE-MAKING AT A RESEARCH-INTENSIVE UNIVERSITY IN SOUTH AFRICA	4227
<i>A. Müller, A. Van Der Merwe, M. Bester, A. Schoonwinkel</i>	
GREEN ENTREPRENEURSHIP ABOVE BORDERS - CHANGE OF THE MODEL OF OPINION OF ENTREPRENEURSHIP AND INNOVATION IN TEACHING THROUGH MIXED TRAINING	4239
<i>N. Tihomirova, D. Atanasova</i>	
KEY COMPETENCIES, STRATEGIES AND CHALLENGES IN AN INTERDISCIPLINARY HIGH SCHOOL PROJECT	4247
<i>K. Dyulgerova, D. Atanasova</i>	
PRACTICES OF TRAINING FUNDRAISING ON CROWDFUNDING PLATFORMS IN RUSSIA	4258
<i>S. Fedyunina, N. Zazaeva</i>	
OPEN DATA COURSE PROJECTS IN BUSINESS INTELLIGENCE	4263
<i>L. Aunimo, R. Kauppinen, H. Kekkonen</i>	
A NOVEL MODULAR AND ADAPTIVE MULTIMODAL CHILD-HUMANOID ROBOT INTERACTION SYSTEM. TECHNICAL IMPLEMENTATION AND EDUCATIONAL BENEFITS	4270
<i>C. Buiu</i>	
PRACTICAL USE OF OFF-THE-SHELF VIRTUAL REALITY FOR DISTANCE EDUCATION - A LOOK AT THE FEASIBILITY OF NON-EXPERT USE	4277
<i>D. Sjölie, T. Eriksson, M. Samuelsson-Gamboá, J. Wideström</i>	
THE VALUE OF SCIENCE IN SECONDARY SCHOOL: THE KEY TO UNLOCKING ASPIRATIONS AND ACHIEVEMENT?	4286
<i>A. Mallaburn, D.W. Putwain</i>	
WHY MARKETING STUDENTS SHOULD STUDY MULTIMEDIA SKILLS?	4287
<i>R. Bilkova</i>	
STUDENTS' PERCEPTION OF GROWTH AND SCALABILITY OF STARTUP IDEAS	4294
<i>S. Mubarak, J. Luomakoski, R. Khan, J. Heikkilä</i>	
TEACHERS CONCERNS ABOUT INTEGRATED EDUCATION. A COMPARATIVE ANALYSIS	4302
<i>K.M. Barth, M.C. Florescu, L.N. Bochiş, C.A. Popa</i>	
AGILE PROJECT BUDGETING - TEACHING THE COMBINATION OF AGILE PROJECT MANAGEMENT AND BEYOND BUDGETING BASICS	4307
<i>C. Ploder, T. Dilger, P. Schöttle</i>	
HOW MUCH AND FOR HOW LONG MIGHT UNIVERSITY STUDENTS USE INSTANT MESSAGING AS LEARNING TOOLS?	4312
<i>P. Aparicio-Martinez, M.G. Guzmán-Díaz, A.J. Perea-Moreno, G. Pedrós-Perez, M. Vaquero-Abellán, M.P. Martínez-Jiménez</i>	
FACING REAL PROBLEMS FROM A MULTIDISCIPLINARY APPROACH: A PILOT STUDY	4320
<i>M.G. Guzmán-Díaz, A.J. Perea-Moreno, M.P. Martínez-Jimenez, G. Pedrós-Perez, P. Aparicio-Martinez</i>	
THE STRATEGIES OF STUDENT ACTIVITIES IN PERFORMING INFORMATICS-BASED SPOC	4325
<i>M. Mrázek, M. Chráska</i>	
BE AN ASTROPHYSICIST FOR ONE DAY, AMONG GALAXIES AND BLACK HOLES	4333
<i>A. Postiglione, I. De Angelis, F. Chiricotto, F. La Franca</i>	
CASE-STUDY AS AN ELEMENT OF PROBLEM-SITUATIONAL TRAINING FOR STUDENTS OF HUMANITARIAN, MANAGERIAL AND LEGAL AREAS OF EDUCATION	4334
<i>S. Fedyunina, A. Fedumin</i>	
COLLABORATION STRATEGIES BETWEEN HIGHER EDUCATION INSTITUTIONS AND THE MEXICAN AEROSPACE INDUSTRY	4339
<i>A.A. Gonzalez Lozano, R.A. Gómez Ortíz</i>	

PROCESS SAFETY EDUCATION: SELECTING THE CONCEPTS FOR A PROCESS SAFETY PROGRAM (ARTICLE 1/2)	4348
<i>G. Boogaerts, L. Toeter</i>	
THE RELATIONSHIP BETWEEN STUDENT ENGAGEMENT, SCHOOL RIGHTS AND DUTIES PERCEPTION ON QUALITY OF STUDENT-TEACHER INTERACTION	4360
<i>D. Luketić, S. Peranić</i>	
DEVELOPMENT OF SOCIAL RESPONSIBILITY THROUGH GLUTEN FREE COOKING WORKSHOP: MULTIDISCIPLINARY STUDENTS EXPERIENCE	4373
<i>H. Carr-Ugarte, M. Vazquez, G. Perez, M. López-Pérez, S. Piñeiro-Fernández, A. Lasa, M.A. Bustamante, O. Martínez, J. Miranda, I. Larretxi, E. Simón, I. Txurruka, V. Navarro</i>	
LEARNERS' USE OF TIME IN MOOCS ABOUT PROGRAMMING	4380
<i>M. Rõõm, P. Luik, M. Lepp</i>	
DEVELOPMENT OF ALEXA SKILLS AS FINAL PROJECT IN ENGINEERING DEGREES	4388
<i>M.A. Vicente, C. Fernández</i>	
INNOVATE THROUGH CULTURAL ENHANCEMENT AND TECHNOLOGICAL UPGRADE: AN EDUCATIONAL EXPERIENCE OF LED LAMP DESIGN	4393
<i>D. Casciani, M. Celi</i>	
INCREASE THE AWARENESS OF ALS PATIENTS THROUGH A VIRTUAL REALITY APPLICATION	4403
<i>F.M. Ugliotti</i>	
COMPETENCES ACHIEVEMENT IN FACE-TO-FACE AND ONLINE LEARNING	4409
<i>R. Ferreras-García, J. Sales-Zaguirre, C. Ribas-Marí, E. Serradell-López</i>	
INCLUSION OF SOFT SKILLS IN MANAGEMENT INFORMATION SYSTEMS EDUCATION	4414
<i>R. Skyrius, J. Lankutis</i>	
EXPLORING THE EFFECT OF GOAL ORIENTATION THEORY ON IDENTIFICATION PREFERENCES WHEN USING AN ARS	4423
<i>E. Zilberberg, C. Davino</i>	
RELATIONSHIP BETWEEN CHARACTERISTICS SOCIO-PSYCHOLOGICAL PERSONAL ATTITUDES AND THE PERSONAL ORIENTATIONS OF VIETNAMESE STUDENTS STUDYING IN THE RUSSIAN FEDERATION	4433
<i>V.Q. Ho, S.I. Kudinov, I. Kudinova</i>	
INTRODUCING INFORMATION VISUALIZATION TO DESIGN STUDENTS	4442
<i>M. Mauri</i>	
ONLINE INTERACTION AND MOTIVATION IN ADDITIONAL LANGUAGE TEACHING: WHO DOES IT BEST?	4449
<i>C. Prado, T. Barros</i>	
PROBLEM-BASED LEARNING: AN EFFECTIVE TEACHING STRATEGY TO IMPROVE LEARNING OUTCOMES IN COMMERCIAL LAW	4456
<i>M. Serrano Segarra</i>	
INCLUSIVE EDUCATION IN SLOVAKIA FROM THE PERSPECTIVE OF EDUCATION 2030 AGENDA	4463
<i>S. Barnová, S. Krásna, G. Gabrhelová, S. Čepelová</i>	
INTERCULTURAL ASPECTS IN THE TRAINING OF INTERPRETERS FOR PUBLIC SERVICES	4469
<i>E. Reichwalderová, J. Belková</i>	
AN APPROACH TO THE DEVELOPMENT OF CRITICAL THINKING DISCUSSING POLITICAL POSTERS	4476
<i>J. Demčíšák</i>	
WOMEN ENGINEERS ASSOCIATION FOR TRANSFORMING THE FUTURE: OBJECTIVES, MOTIVATIONS AND ACTIONS	4486
<i>M.A. Vicente, C. Fernández, C. Senabre</i>	
DRAW-A-PROGRAMMER TEST AND FIRST RESULTS IN SLOVAKIA	4494
<i>Z. Kubincová, M. Homola, M.H.M. Chen, T.H. Lu</i>	
GENIUSUP! CHEMISTRY (SPECIAL EDITION)! AN EDUCATIONAL EXPERIENCE THROUGH SERIOUS GAMES FOR CHEMISTRY LEARNING IN A LUDIC WAY	4502
<i>F.J. Perales, S. Ramis, C. Manresa-Yee</i>	
EDUCATIONAL INNOVATION PROJECT: CRITICAL ARCHITECTURE	4508
<i>L. García-Soriano, M. Diodato, V. Cristini, Y. Hernández Navarro, C. Mileto, F. Vegas López-Manzanares</i>	

STUDENT INTERACTION WITH THE INTERPLAY TOOL <i>J.G. Rios, V.E. García-Félix, I. Marton Lluch</i>	4513
FASHION-TECH EDUCATION UNRAVELED. AN EXPLORATION ON THE STATE OF THE ART OF FASHION-TECH DIDACTICS <i>C. Colombi, L. Tenuta, A. Vellesalu</i>	4521
COLLABORATIVE DESIGN OF A TEACHING OBSERVATION GRID TO FACILITATE THE ACCEPTANCE OF TEACHING OBSERVATION PRACTICES <i>L. Caporarello, F. Cirulli, M. Milani</i>	4531
HOUSE-NEPAL: DESIGN OF A PROTOCOL FOR THE EXECUTION OF WORKSHOPS LINKED TO THE EMPOWERMENT OF THE POPULATION OF DHULIKHEL <i>F. Vegas López-Manzanares, C. Mileto, L. García-Soriano, A. Casañs Tejedor</i>	4537
LESSONS LEARNT FROM M-LEARNING OF SPINE USING VR, AR, PORTABLE 3D HOLOGRAM AND INTERACTIVE E-LEARNING GAMES FOR MOBILE LEARNING IN PHYSIOTHERAPY EDUCATION: INSIGHTS FROM USERS AND PROFESSIONALS <i>Y.M. Law, S.S.M. Ng, W. Wong, P.S. Wong</i>	4544
DIGITAL TRANSFORMATION AND SPECIALIZED TRAINING IN SUSTAINABILITY <i>M.A. Fernández-Izquierdo, M.J. Muñoz-Torres, J.M. Rivera-Lirio, I. Ferrero-Ferrero, E. Escrig-Olmedo</i>	4550
COLLABORATIVE PROJECT TO IMPROVE THE THERMAL COMFORT AND THE ENERGY CONSUMPTION AT THE FACULTY OF ENGINEERING VITORIA-GASTEIZ (UNIVERSITY OF THE BASQUE COUNTRY) <i>E. Apiñaniz, A. Mesanza, I. Calvo, C. Escudero, J.M. Gil-García, A.J. Garcia Adeva, M. Gastón</i>	4554
USING E-LEARNING IN TEACHING THE ENGLISH SUPRASEGMENTAL FEATURES <i>H. Vancova</i>	4560
AN IMMERSIVE VIRTUAL REALITY SERIOUS GAME TO LEARN ABOUT YOUR UNIVERSITY <i>F.J. Perales, S. Ramis</i>	4561
PRONUNCIATION OF WEAK FORMS BY THE NON-NATIVE LEARNERS OF ENGLISH <i>H. Vancova</i>	4566
LEARNING BY RESEARCHING OURSELVES: IMPLEMENTATION OF AUTOETHNOGRAPHY IN THE FIELD OF TEACHER DEVELOPMENT <i>D. Luketić</i>	4571
A PROPOSAL FOR THE DEVELOPMENT OF INTERNATIONAL SKILLS IN COMPUTER SCIENCE AND ENGINEERING STUDENTS <i>O. Peñalba, A. Fernández-Bravo, I. García-Juliá</i>	4581
JOURNALISM EDUCATION IN THE POST-TRUTH ERA: A MULTIDISCIPLINARY MODEL <i>S. Santos, R. Basílio Simões, I. Amaral</i>	4582
BEST PRACTICES IN NETWORKING OF PHD PROGRAMS IN GERMAN STUDIES <i>J. Demčíšák</i>	4586
GAMIFICATION AND SELF-ASSESSMENT TO PROMOTE STUDENT MOTIVATION IN AN UNDERGRADUATE PROGRAMMING COURSE: A CASE STUDY <i>C. Manresa-Yee, M.F. Roig-Maimó, F.J. Perales, M. Mascaró, J. Montes de Oca, J.M. Buades, S. Ramis</i>	4591
STUDENT LOYALTY AS A KEY TO BUILDING STRONG BRANDS IN MEXICAN PUBLIC UNIVERSITIES <i>J. Casanoves-Boix, M. Pérez-Sánchez, C. Chang Albitres</i>	4598
EXPERIENCE GRAVITY USING MARBLES AND A RUBBER SHEET: TRICKS AND GUIDELINES <i>A. Postiglione, I. De Angelis</i>	4605
PARTICIPATIVE SCIENCE COMMUNICATION AND THE PRACTICAL USE CASE OF THE YES! PROJECT <i>S.B. Linek, W. Scholz</i>	4612
INTELLIGENT SOFTWARE AGENTS IN HELP OF LEARNING SUPPORT FOR AUTISTIC STUDENTS <i>A. Petrov, A. Epitropova, S. Stoyanov</i>	4622
PARTICIPATORY RADIO: MAPPING THE BENEFITS FOR INFORMAL LEARNING <i>R. Basílio Simões, S. Santos, I. Amaral</i>	4629
WORLDWIDE APPROACHES OF SOFT SKILLS TRAINING AS A STRATEGY FACTOR OF ROI GROWTH <i>M. Staboulis, I. Lazaridou</i>	4633

INNOVATION IN TEACHING FOR TRAINING IN CLINICAL REASONING FOR STUDENTS OF SPEECH THERAPY DEGREE	4640
<i>M. Calleja, M.L. Luque, J.M. Rodríguez, J. Ferrer, J. León-Carrión</i>	
IMPROVING ENERGY-EFFICIENCY SKILLS IN THE CONSTRUCTION SECTOR THROUGH TECHNOLOGY-ENHANCED LEARNING: THE CASE OF BIMPLEMENT PROJECT	4646
<i>M.J. Esparza-Arbona, M. Navarro-Escudero, B. Serrano-Lanzarote, J. Cromwijk, P. Op' T Veld</i>	
BRINGING LEARNING AND ENTERTAINMENT ACROSS CHALLENGES: AN APPLICATION OF GAME	4654
<i>A. Coelho, J. Costa, F. Costa, F. Machado, O. Martins</i>	
HUMAN LIBRARIES: THE POWER OF USING STORIES IN EDUCATION	4660
<i>I. Boboňová, I.L. Kurték, A. Škodová, L. Galuščáková, L. Rybanský</i>	
CLINICAL SIMULATION AS A METHOD OF LEARNING IN THE SUBJECT OF KINESITERAPIA IN THE PHYSIOTHERAPY DEGREE OF THE UNIVERSITAT DE LES ILLES BALEARS	4667
<i>M.T. Arbós-Berenguer, E. Bosch-Donate, M.A. Capó-Juan, K. Sansebastián-Fernández, B. Oliver-Jaume, A. Sabater-Garriz</i>	
FEEDBACK OF FIRST YEAR STUDENTS' TUTORING PROGRAM	4673
<i>P. Catarino, A.P. Aires</i>	
MODELLING WITH AN ADVANCED COMPUTING ENVIRONMENT IN A STEM PROBLEM-SOLVING ACTIVITY BY UNIVERSITY STUDENTS	4681
<i>C. Fissore, F. Floris, M. Marchisio</i>	
DEVELOPMENT OF AN AUGMENTED REALITY MOBILE APP FOR ENHANCING ENGLISH READING SKILLS	4691
<i>A. Carrera Rivera, S. Vasconez Miranda, J. Samaniego Villarroel, A. Mayorga Alban</i>	
AFFECTIVE COMPUTING FOR AN EDUCATIONAL PURPOSE: A CASE OF USE	4697
<i>S. Ramis, C. Manresa-Yee, F.J. Perales</i>	
VISUAL COMMUNICATION - IN THE PROCESS OF DEVELOPING DIGITAL COMPETENCE	4703
<i>K. Lapšāns, A. Samuseviča</i>	
CHEMICAL EXPERIMENT FOCUSED ON MONITORING ENERGY CHANGES IN ICE MELTING WITH THE IMPLEMENTATION OF THE SCHOOL MEASURING SYSTEM	4710
<i>Z. Jenisová, M. Feszterová, B. Tokárová</i>	
THE ROLE OF TAM BELIEFS, PERCEIVED ENJOYMENT AND COPRESENCE ON STUDENTS' SATISFACTION WITH COLLABORATIVE LEARNING AND POSITIVE WORD OF MOUTH	4720
<i>E. Bigne, C. Ruiz, A. Badenes, R. Currás</i>	
SCIENCE AND FACEBOOK: IS SCIENTIFIC DISSEMINATION VIA FACEBOOK VIABLE?	4721
<i>J. Samaniego Villarroel, A. Carrera Rivera, D. Valencia Ruiz, A. Guillén Cortéz, Y. Vargas Jama</i>	
EVALUATOR OF OBJECTIVE TESTS THROUGH A CHATBOT	4726
<i>M.D. Sáez Fernández, M.P. Escobar Esteban, G. Candela Romero, M. Marco-Such</i>	
USING QR CODES IN THE TELECOMMUNICATION LABORATORY	4730
<i>D. Stoyanova, N. Vakrilov, S. Stoyanova-Petrova, N. Kafadarova, N. Mileva</i>	
3D VIRTUAL WORLDS TO DESIGN SOCIAL STORIES: AN INTEGRATED APPROACH IN INTERVENTIONS WITH CHILDREN WITH ASD	4735
<i>L. Fedeli, V. Pennazio</i>	
QUALITY IN HIGHER EDUCATION: THE MAINTENANCE PHASE OF THE INTERNAL QUALITY ASSURANCE SYSTEM IN ONE PORTUGUESE UNIVERSITY	4742
<i>N. Jesus-Silva, A. Machado</i>	
STAIRWAY TO HEAVEN: INSTRUCTIONAL DESIGN ALIGNMENT IN A SERIOUS GAME FOR EXPERIENTIAL RELIGIOUS EDUCATION IN VIRTUAL REALITY	4743
<i>S. Mystakidis, M. Fragkaki, I. Hatzilygeroudis</i>	
TEACHER EVALUATION AND SELF-EVALUATION MODELS: A PILOT STUDY	4751
<i>I. Boboňová, S. Čeretková, L. Rybanský, L. Galuščáková</i>	
INTERNAL EVALUATION OF ERASMUS+ PROJECTS: THE CASE OF ELSE PROJECT	4758
<i>J.M. Piñero-López, N. Gómez-Aguilar, C. Contero Urgal, M.D. Capelo-Bernal</i>	
IS IT IMPORTANT TO BE DIGITALLY AND SOCIALLY SKILLED AT UNIVERSITY? A COMPARATIVE STUDY ON COMPUTER SCIENCE AND BUSINESS STUDENTS	4775
<i>B. Touaiti</i>	

WHICH EDUCATIONAL DESIGN TO PROMOTE THE INCLUSION OF CHILDREN WITH DISABILITIES IN 0-6 YEAR EDUCATIONAL SERVICES? THE RESULTS OF AN EXPLORATORY RESEARCH	4776
<i>V. Pennazio</i>	
IMPROVING THE SOCIAL INCLUSION OF CHILDREN WITH VERBAL COMMUNICATION BY USING A TESI TOOL: PILOT RESULTS	4786
<i>D. Stoyanova, N. Kafadarova, S. Stoyanova-Petrova, N. Mileva</i>	
EDUCATIONAL DIMENSION OF SUCCESSFUL AGEING	4791
<i>M. Muller de Morais, P. Jedlickova, M. Ivancikova</i>	
IMPLEMENTING ECOSYSTEM APPROACH TO EXECUTIVE MBA: THE CASE OF MOSCOW STATE UNIVERSITY	4799
<i>O. Molchanova, I. Burak</i>	
A CASE OF SUSTAINABILITY FOR ENTREPRENEURSHIP EDUCATION IN THE GLOBALIZED WORLD	4803
<i>L. Trifan, M.I. Dascălu, C. Mustață, I. Stănică</i>	
PROJECT-BASED LEARNING IN THE SUBJECT OF ENERGY AND SUSTAINABLE DEVELOPMENT	4811
<i>I. Marton Lluch, J.F. Villanueva, S. Gallardo, S. Carlos, A.I. Sánchez</i>	
THE USE OF SELF-ASSESSMENT IN FIRST YEAR STUDENTS OF THE DEGREE OF FOOD SCIENCE AND TECHNOLOGY	4820
<i>M. Ortega-Heras, I. Gómez, M.D. Rivero-Pérez, M. Cavia-Saiz, M.L. González-Sanjosé, P. Muñiz</i>	
TOOLS FOR PREVENTING ACADEMIC DISHONESTY: THE ROLE OF E-LEARNING TUTORIAL FOR ACADEMIC INTEGRITY	4825
<i>S. Pekovic, J. Janinovic, D. Vuckovic, R. Djokovic</i>	
AN ANALYSIS OF B2 TESTS IN ENGLISH IN THE SLOVAK EDUCATIONAL CONTEXT	4833
<i>J. Bérešová</i>	
ONLINE QUIZZING AS A VEHICLE OF LEARNING IN INTRODUCTORY MACROECONOMICS	4839
<i>I. Tsener</i>	
STEREOTYPE AWARENESS OF UNDERGRADUATE STUDENTS: RESULTS OF A CASE STUDY	4843
<i>X. Liashuk</i>	
MOBILE APPLICATION TO TRACK STUDENT EXPERIMENTAL LEARNING AND TO IMPROVE THE STUDENTS' ATTENTION	4852
<i>I. Gómez, M. Ortega-Heras, M. Cavia-Saiz, M.D. Rivero-Pérez, P. Muñiz, M.L. González-Sanjosé</i>	
STATLEARN@: AN E-LEARNING RESOURCES FOR IMPROVING STUDENTS' UNDERSTANDING OF HYPOTHESIS TESTING	4857
<i>N.A. Che Musa, Z. Mahmud, N. Baharun, A.H. Adenan</i>	
PECULIARITIES AND CHALLENGES OF THE APPLICATION OF THE FRAMEWORK OF REFERENCE FOR INTERCULTURAL COMMUNICATIVE COMPETENCE BY PRE-SERVICE TEACHERS OF ENGLISH AS A FOREIGN LANGUAGE	4865
<i>X. Liashuk</i>	
STEREOTYPES, VIDEOGAMES AND AWARE PLAYERS IN HIGHER EDUCATION	4873
<i>M. Ranieri, C. Gaggioli</i>	
LEARNING TO TAKE THE NEXT STEP: KNOWLEDGE ACQUISITION OF ORTHOGRAPHIC PATTERNS IN SERIOUS GAMES WITH IMMEDIATE FEEDBACK	4883
<i>K. Berkling, H. Kermes</i>	
NOVEL RESOURCES FOR TEACHING CLINICAL VETERINARY PARASITOLOGY: FRAMEWORK AND PILOT EXPERIENCE	4892
<i>A. Peña-Fernández, L. Acosta, D. Ollero, A. Montoya, A. Magnet, G. Miró</i>	
CURRENT PROBLEMS OF INTERNATIONAL COOPERATION IN HIGHER PROFESSIONAL EDUCATION	4900
<i>I. Baranova, M. Dotsenko, I.I. Kakhovskaia</i>	
HOW A NEW LEARNING MODULE SUPPORTS A COMPREHENSIVE LEARNING WITH RESPECT TO FILM PRODUCTION AND COMPETENCIES OF THE FUTURE	4906
<i>I. Schuenemann, J. Kirch, S. Siehl</i>	
USE OF A PBL-APPROACH TO DEVELOP AND TO ASSESS GENERIC COMPETENCES IN A MASTER'S DEGREE IN MECHANICAL ENGINEERING	4913
<i>J. Carballeira, M. Tur, A.J. Besa, J. Albelda, J.E. Tarancón, J. Martínez-Casas, F.D. Denia, J.J. Ródenas</i>	
A TEACHING METHOD OF DEAF-MUTE BASED ON ARTIFICIAL INTELLIGENCE	4917
<i>W. Wang, H. Yang</i>	

DEVELOPING A SMARTPHONE APP FOR LEARNING PARASITOLOGY	4924
<i>A. Peña-Fernández, S. Fenoy, J. Simons, C. Del Aguila, J. Shell, M.D. Evans, L. Acosta</i>	
BUILDING A COMPLEMENTARY TEACHING MATERIAL FOR VIRTUAL LEARNING OF INTRODUCTORY CONCEPTS IN MANDATORY COURSES IN A CHEMICAL SCIENCE AND TECHNOLOGY MASTER'S DEGREE	4930
<i>E. Palacio, B. Isern, M. Miró, J.G. March, J.M. Estela, L. Ferrer</i>	
A LEARNING ACTIVITY DESIGNED FOR A LARGE GROUP OF STUDENTS IN A MECHANICAL ENGINEERING SUBJECT USING PEER-ASSESSMENT TO ENCOURAGE DEEPER LEARNING	4931
<i>J.L. Suñer, J. Carballeira</i>	
USE OF A DIGITAL GAME IN THE CLASSROOM TO TEACH MATHEMATICS. A CASE STUDY	4936
<i>P. Gonçalves, P. Catarino, A. Soares</i>	
THE ABILITY OF SOLVING NON-STANDARD TASKS AND PROBLEMS AMONG THE CZECH MATHEMATICS TEACHING STUDENTS	4945
<i>M. Škultéty, J. Hodaňová</i>	
THE USE OF FACEBOOK AS AN ASSET IN HIGHER EDUCATIONAL SYSTEM	4951
<i>R. Serôdio, A. Virtudes, I. Inácio, V. Cavaleiro</i>	
PEDAGOGICAL-DIDACTIC AND HYGIENIC FACTORS INFLUENCING THE REALIZATION OF THE EDUCATIONAL PROCESS	4960
<i>J. Depešová, I. Tureková, V. Tomková</i>	
ANALYSIS OF STRATEGIES FOR TEACHING METHODS OF ADJUSTING CURVES AND INTERPOLATIONS	4967
<i>E. Cruz, A. Soares, P. Catarino</i>	
ICT RESOURCES IN EDUCATION AND THEIR IMPACT ON CLASSROOM CLIMATE	4975
<i>J. Depešová, M. Šebo, P. Migo</i>	
IMPORTANCE OF INTERNSHIPS IN BUSINESS HIGHER EDUCATION: AN ORDERED PROBIT MODEL APPROACH	4983
<i>D. Magueta, C. Veloso, S. Estrela, M. Felício</i>	
EDUCATIONAL ACTIVITY PROPOSAL FOR THE DEVELOPMENT OF EMPATHY IN BEGINNER STUDENTS OF COMPUTER SCIENCE	4989
<i>A. Aguelo, C. Sanz, T. Coma, S. Baldassarri, P. Álvarez</i>	
TEACHING AND LEARNING CREATIVITY: AUGMENTED REALITY STORYTELLING IN THE MULTIDISCIPLINARY CLASSROOM	4996
<i>E. Polyak, T. Berreth, P. Fitzgerald</i>	
METHODOLOGY: A WAY TO DIFFERENTIATE SIGNIFICANT FROM INTUITIVE RESPONSES	5003
<i>A. Coelho, J. Costa, F. Pedro, L. Francisco, J. Simões, O. Martins</i>	
DIDACTICS AND RESEARCH IN DESIGN DURING EMERGENCIES: HOW THE EMERGENCY STATE HAS MODIFIED – AND WILL MODIFY – THE TOOLS FOR TEACHING AND RESEARCH IN DESIGN	5009
<i>R. Angari, G. Pontillo</i>	
MY CLASSROOM IS A PALEONTOLOGICAL SITE: A TEACHING-LEARNING RESOURCE OF VIRTUAL REALITY	5018
<i>C. Castillo Ruiz, A. Mesa Jaubert, A.M. Navas Simon, I. Sánchez Berriel, M. Afonso-González</i>	
THE ROLE OF DISTANCE EDUCATION IN PROMOTING THE INTERNATIONALIZATION OF HIGHER EDUCATION	5019
<i>K. Graziela Weber Machado, F. Sereno Soso, A. Justin Cerveira Kampff</i>	
TEACH-OUTS: A FRAMEWORK FOR PUBLIC ENGAGEMENT IN ONLINE LEARNING	5027
<i>B. Morse, M. Maher</i>	
RETHINKING TEACHING: 3 WAYS TO IMPROVE FACULTY CULTURE + STUDENT LEARNING	5036
<i>K. Adjout, T. Marsh, N. Caruso</i>	
METHODOLOGY DEVELOPMENT IN ADULT LEARNING RESEARCH. COMBINING PHYSIOLOGICAL REACTIONS AND LEARNING EXPERIENCES IN SIMULATION-BASED LEARNING ENVIRONMENTS	5037
<i>M. Silvennoinen, M. Vesisenaho, M. Manu, T. Kullberg, A. Malinen, T. Parviainen</i>	
SCHOLAR DESERTION, A STUDENTS AND PARENTS' PERSPECTIVE ANALYSIS USING VISUAL LEARNING ANALYTICS	5047
<i>J. Figueroa, L. Sánchez-Guerrero, G. González-Beltrán, S. González-Brambila</i>	

SHOWING AND ANALYZING THE TIME NEEDED FOR ENGINEERING STUDENTS IN ORDER TO FINISH DIFFERENT COURSES' GROUPS OF A STUDY PROGRAM IN AN INSTITUTE FOR HIGHER EDUCATION	5055
<i>J. Figueroa, L. Sánchez-Guerrero, B. González-Beltrán, S. González-Brambila</i>	
ENHANCING STUDENTS LEARNING BY A DATA SCIENCE COURSE COMPONENT	5062
<i>E. Braynova</i>	
INTERDISCIPLINARY PROJECT IN HIGHER EDUCATION: WHY NOT? A CASE STUDY OF A MARKETING DEGREE	5065
<i>I. Machado, C. Neves, A. Vieira, T. Aragonez, M. Ferreira, P. Santos, S. Caniço</i>	
THE COMMUNICATION OF EMOTIONS AND CONVERSATIONAL SENSITIVITY OF THE MOTHERS OF CHILDREN WITH COCHLEAR IMPLANT	5073
<i>R. Concha, C. Serrano, N. Silvestre</i>	
DEVELOPING A COOPERATIVE PLATFORM FOR RESEARCHING THE USE OF VIDEO-BASED LEARNING UNITS IN UNIVERSITY-BASED TEACHER EDUCATION	5080
<i>T. Gattinger, P. Sacher, D. Weiß, D. Schiffner</i>	
UNIVERSITY NETWORKING COOPERATION IN RELATION TO ONLINE TEACHING	5090
<i>I. Balandina, L. Yuzdova, T. Moskoitina, K. Zvyagin, E. Vertyakova</i>	
RESULTS OF DIFFERENT METHODOLOGIES IN THE TEACHING OF OCCUPATIONAL RISK PREVENTION FOR ADULTS IN VOCATIONAL TRAINING	5096
<i>P. de Dato, Y. Hernández Navarro</i>	
CHALLENGE DRIVEN EDUCATION IN USING EMERGING TECHNOLOGY TO NARROW THE GAP BETWEEN THE AGEING POPULATION AND HEALTH CAREGIVERS	5104
<i>A. Kelati, H. Maziku, J. Plosila, N. Mvungi, H. Tenhunen</i>	
SOCIAL MAKERSPACE: CONSTRUCTIONIST APPROACH TO EDUCATION	5114
<i>A.C. Vidaña, E. Momox</i>	
PROMOTING THE PHOTOVOLTAIC DEVELOPMENT IN THE UNIVERSITY OF THE BASQUE COUNTRY (UPV/EHU) BY THE APPLICATION OF REAL PROBLEMS AND SELF-LEARNING PROBLEMS SOLVING	5121
<i>I. Martínez-de-Alegria, A. Campos, R.M. Lago, E. Villanor</i>	
PROBLEMS BY LEVEL OF DIFFICULTY AND THEIR USE IN MATHEMATICS TESTS	5127
<i>J. Laitochová, M. Uhlířová, K. Pastor</i>	
TRANSFERABLE SKILLS FOR PHD GRADUATES	5134
<i>G. Barandika, I. Astorkiza, O. González, E. Portillo, E. Simon</i>	
TEAM SUPERVISION OF THE DOCTORAL THESIS IN THE FIELD OF SCIENCES AT THE UNIVERSITY OF THE BASQUE COUNTRY	5142
<i>G. Barandika</i>	
ESPAI OBERT. MULTIDISCIPLINARY COOPERATIVE LEARNING EXPERIENCE	5149
<i>Y. Hernández Navarro, P. de Dato, M.C. Esteve Sendra, M.F. Puerta Gómez</i>	
GRAPHICAL LITERACY OF STUDENTS AT THE END OF THE 1ST SEMESTER OF MEDICINE STUDY (DETAILED ANALYSIS OF PROBLEM SOLVING TASK FROM TEST FOCUSED ON DETECTION PHYSICS LITERACY OF STUDENTS)	5157
<i>Z. Balázsová</i>	
IMPROVING MEMORY AND LEARNING SKILLS IN STUDENTS	5161
<i>M.P. García Pardo</i>	
LIFELONG PROFESSIONAL LEARNING – A REQUIRED INSTRUMENT FOR BUILDING A MODERN SUCCESSFUL CAREER	5162
<i>R. Vasileva, N. Kostova</i>	
EXPLORING INNOVATIVE WAYS TO COUNTERACT SOCIAL INEQUALITIES	5172
<i>A.A. Collado, S. Fachelli, N. Vergés Bosch, P. López-Roldán, L. Freude</i>	
INTEGRATING SERVICE-LEARNING IN LANDSCAPE DESIGN EDUCATION: EXPLORING HANDS-ON PROBLEM SOLVING SKILLS, CONFIDENCE BUILDING, AND ETHICAL AND ENVIRONMENTAL RESPONSIBILITY AND PROFESSIONALISM	5173
<i>J. Sherk, D. Bretzman, L. Ivy</i>	
DIFFERENT VOICES, A SIMILAR EXPERIENCE? TALES OF INTERNATIONAL SUPERVISION LINKING ACADEMIA AND NON GOVERNMENTAL ORGANIZATIONS (NGOS)	5174
<i>B. Lopes, S. Diogo</i>	

INTEGRATING CAMPUS PARTNERS TOWARDS EQUITABLE OPEN EDUCATIONAL RESOURCES ADOPTION: A CASE STUDY OF A CALIFORNIA STATE UNIVERSITY AFFORDABLE LEARNING SOLUTIONS PROGRAM AT HUMBOLDT STATE UNIVERSITY	5181
<i>K. Morgan, K. Stelter, M. Barker</i>	
TECHNOLOGY ENHANCED ASSESSMENT AS A TOOL OF SELECTION OF INTERNATIONAL STUDENTS IN HIGHER EDUCATION INSTITUTIONS	5188
<i>C. Ugalde, C. Palacios, A. Zaporozhchenko</i>	
QUALITATIVE EVALUATION OF PERSPECTIVES ON EFFECTIVENESS OF USE OF DIGITAL AND SOCIAL MEDIA IN EDUCATION	5196
<i>K. Alhumaid, K. Ayoubi</i>	
BE SAFE AND ESCAPE THE LAB: A LEARNING EXPERIENCE FOCUSED ON LABORATORY SAFETY RULES AND HAZARDOUS WASTE MANAGEMENT	5197
<i>N. Rojo, J. Gutierrez, A. Santaolalla, E. Sáez de Cámara, D. Encinas, Z. Gómez-de-Balugera</i>	
GENDER-DIFFERENCES IN UNIVERSITY STUDENTS' SELF-REGULATION AND PROCRASTINATION: THE ROLE OF PHYSICAL ACTIVITY AND ITS CHARACTERISTICS	5206
<i>R. Valenzuela, N. Codina, J.V. Pestana</i>	
FROM UNIVERSITY TO HIGHSCHOOL: SOCIOLOGY AND PHARMACY STUDENTS ACQUIRE CONTENTS AND COMPETENCES GIVING A WORKSHOP ON DRUGS IN HIGHSCHOOLS	5212
<i>L. Freude, A.A. Collado, N. Vergés Bosch, C. Camps Calvet</i>	
TO WHICH EXTENT CAN WE USE AUGMENTED REALITY IN MATH LEARNING? A SURVEY ON THE POTENTIALS AND LIMITATIONS OF UTILIZING AR IN HIGH-SCHOOL MATH LECTURES IN IRAN	5213
<i>H. Fathi, H. Abu Rasheed, M. Fathi, M. Lohrey</i>	
BEST PRACTICES IN PROBLEM-ORIENTED SOFT CLIL APPROACH FOR LOTE PROJECT ERASMUS+ 2018-1-SK01-KA201-046316	5223
<i>M. Hornacek Banasova</i>	
PSYCHOLOGICAL SAFETY OF STUDENTS IN SOCIAL NETWORKS: THE SEARCH FOR DANGEROUS CONTENT AND IDENTIFYING ITS CONSUMERS	5228
<i>A. Feshchenko, V. Matsuta, J. Mundrievskaya, A. Peshkovskaya, V. Goiko</i>	
FIRST-YEAR UNIVERSITY STUDENTS LEARNING BACKGROUND: AN INTERREGIONAL STUDY OF THE IMPORTANCE AND RELEVANCE OF ACADEMIC CHOICES	5239
<i>M. Des, A.S. Ribeiro, M. DeCastro, M.C. Sousa, A.J.C. Crespo, J.M. Domínguez, J.M. Dias, M. Gómez-Gesteira</i>	
AXIOLOGICAL COMPONENT OF THE BEHAVIOR MODEL OF MODERN STUDENTS IN HIGHER EDUCATION	5244
<i>T. Rezer</i>	
INTELLIGENT LEARNING MANAGEMENT SYSTEMS FOR AUTOMATED CURRICULUM PERSONALIZATION: INITIAL NEGATIVE STUDENTS' PERCEPTIONS (PILOT STUDY)	5249
<i>J.V. Pinar, M.P. Lisboa, G. Liste</i>	
INFORMATION AND COMMUNICATION TECHNOLOGIES ENABLE THE INTRODUCTION OF NEW FORMS OF INDEPENDENT WORK WHILE STUDYING FOREIGN LANGUAGES	5255
<i>O. Mozgovaya, A. Egorova, T. Egorova</i>	
VIRTUAL INFORMATION EDUCATIONAL ENVIRONMENT FOR INTERNATIONAL STUDENTS AS A RESOURCE FACILITATING THEIR ACADEMIC ADAPTATION	5260
<i>A. Egorova</i>	
EXPOSURE TO VOCABULARY TRANSLATION: ITS IMPLICATIONS ON VOCABULARY ACQUISITION	5264
<i>C. Palacios, C. Pérez-Guillot</i>	
DEVELOPMENT OF SOCIAL AND VALUE ORIENTATIONS OF HIGHER SCHOOL STUDENTS	5271
<i>T. Rezer</i>	
EFFECTIVE STRATEGIES TO TEACH ONLINE APPLIED LINGUISTICS COURSES ON CLIL USING OPEN EDUCATIONAL RESOURCES IN HIGHER EDUCATION: A CASE STUDY	5275
<i>G. Carloni</i>	
30,000 DEGREES OF COLLEGE MINDEDNESS: FAMILY MESSAGES ABOUT COLLEGE	5281
<i>N. Ditunnariello</i>	

TECH UPSKILLING IN CHINA AMIDST THE OUTBREAK OF COVID-19 <i>D. Krygier, L. Knowles</i>	5282
DESIGN EDUCATION SCENARIOS FOR TERRITORIAL IDENTITIES DEVELOPMENT <i>J. Alarcón Castro, A. Llorens Vargas, J. Brañes Alarcón</i>	5283
THE USE OF CORPORA IN ENGLISH LANGUAGE TEACHING <i>J. Bérešová</i>	5288
DATA AND NETWORKS APPLIED TO FASHION: A NEW SYSTEMIC APPROACH FOR FACING INDUSTRY'S COMPLEXITY <i>A. Vandi</i>	5293
ENTREPRENEURSHIP AND DESIGN RELATED EDUCATION: NAVIGATING AN UNCERTAIN SCENARIO <i>J. Alarcón Castro, A. Llorens Vargas, J. Brañes Alarcón</i>	5301
PROTOTYPING AS A LEARNING TOOL IN ARCHITECTURAL DESIGN <i>F. Soriano-Peláez, S. Colmenares-Vilata, E. Gil-Lopesino, E. Castillo-Vinuesa, M. De Barba</i>	5308
FROM INSTRUCTIONAL SYSTEMS TO INTERACTIONAL ENVIRONMENTS: AN INTRA/INTER CATHEDRA SEMINARY FOR THE TEACHING OF MATHEMATICAL ANALYSIS I IN ENGINEERING CAREERS <i>M. Dádamo, S. Hernandez</i>	5319
DIGITAL COMPETENCES OF UNIVERSITY EDUCATORS IN MODERN WORLD <i>P. Pekker</i>	5327
E-TUTORING AS AN OPPORTUNITY FOR TEACHERS' FURTHER EDUCATION <i>S. Barnová, S. Krásna, G. Gabrhelová, S. Čepelová</i>	5333
A NOVEL ICT TOOL TO PREVENT BULLYING IN SCHOOLS <i>C. González, J.M. Alberola, V. Sánchez-Anguix, G. Monfort, S. Molines, M.D. Soto, S. Díaz</i>	5338
EFFECTS OF PEER-TO-PEER LEARNING ON INDIVIDUAL CLASSROOM PERFORMANCE AND EVALUATION UNDER TEAM SETTINGS <i>A. Caprile, A. Fariás</i>	5345
USE OF WEB APPLICATIONS TO MANAGE AND PLAN A PHD THESIS <i>T. Boronat, V. Fombuena, J. Ivorra-Martinez, S. Rojas-Lema, R. Balart</i>	5350
I WROTE IT! - SELF- PLAGIARISM IN THE ACADEMIA <i>N. Bessa Vilela, J. Caramelo Gomes</i>	5355
PEER-TO-PEER LEARNING AS A GENERATOR OF NEW PROACTIVE PRACTICES FOR STUDENTS ENGAGEMENT <i>P. Bolzan, A. Ascani, D. Minighin, M. Ventrella</i>	5361
THE USE OF FACEBOOK IN THE TEACHING / LEARNING PROCESS AND ITS INFLUENCE ON ACADEMIC PERFORMANCE <i>V. Pereira, E. Oliveira</i>	5369
ACTIONS FOR THE CONTEXTUALIZATION AND DEVELOPMENT OF PROFESSIONAL COMPETENCES <i>M.C. Mayorga-Toledano, A. Fernández-Morales, R. Moreno-Ruiz</i>	5379
GEOBOARD AS A NON-TRADITIONAL LEARNING ENVIRONMENT FOR BUILDING GEOMETRIC CONCEPTS IN ELEMENTARY SCHOOL <i>M. Uhlířová, J. Laitochová</i>	5386
STUDY OF EXPECTATIONS, LEARNING ABILITY AND SATISFACTION THROUGH THE ERASMUS + PROGRAM <i>V. Mangas Sanjuan, I. Usach, M. Garcia-Cremades</i>	5394
INCREASING EMPLOYABILITY IN AIR TRANSPORT THROUGH NEW INTERDISCIPLINARY QUALIFICATIONS <i>S.E. Zaharia, A.P. Pavel, C.V. Pietreanu</i>	5398
MULTIDISCIPLINARY COLLABORATIVE PROJECTS FOR A MORE COORDINATED ACTUARIAL EDUCATION <i>A. Fernández-Morales, E. Trigo-Martínez, O. Gómez Pérez-Cacho</i>	5409
EDUCATIONAL EXPERIENCE BASED ON INVERSE ENGINEERING TO EXPLAIN THE EMBRITTLEMENT OF MATERIALS. METHOD BASED ON REAL CASE STUDIES <i>E. Rayon, L. Quiles-Carrillo, S. Torres-Giner, D. Lascano, T. Boronat</i>	5415
DEVELOPMENT OF AN OPEN SOURCE PLATFORMS FOR IMPROVING THE LEARNING PROCESS IN PHARMACY <i>V. Mangas Sanjuan, M. Garcia-Cremades, I. Usach, A. Nacher, V. Merino-Sanjuan, M. Merino-Sanjuan, R. Talens</i>	5422
IS THIS BLENDED-LEARNING, OR ANOTHER THING? <i>H. Belchior-Rocha, R. Mauritti, J. Paiva Monteiro, L. Carneiro</i>	5428

EXPERIENCES GAINED FROM TEACHING SPATIAL GEOMETRY WITH 3D COMPUTER MODELING	5435
<i>P. Surynkova</i>	
LEARNING AUTONOMY AND ADVANCING OF ENGLISH LISTENING SKILLS WITH BBC VIDEO CLIPS	5444
<i>M. Zakharova</i>	
LEARNING FACTORS IN THE ACADEMIC GOALS OF STUDENTS OF TWO SECONDARY SCHOOLS IN TABASCO, MEXICO	5450
<i>S.G. Gomez Jimenez, A.C. Lizardo Perez, R. Rodriguez Bastarmerito, M.C. Villanueva Guevara, C.J. Morton Montemayor, J.A. Gomez Jimenez</i>	
TEACHING WITH GEOGEBRA VERSUS TRADITIONAL METHOD	5459
<i>L. Kontrová, D. Šusteková</i>	
A METHODOLOGY FOR SOFT-SKILLS IMPROVEMENT VIA GAME DEVELOPMENT INTENSIVE PROJECT	5467
<i>K. Podlaski, P. Milczarski, A. Hłobaż, J.C. Monteiro, D. O'Reilly, J. Hautamaki, H. Bollaert, P. Possemiers, N. Neves</i>	
VIRTUAL LEARNING ENVIRONMENT: AN OPTIMAL TOOL FOR LANGUAGE TEACHER TRAINING INTERNSHIP. THE VIR-TEACH PROJECT AS A CASE STUDY	5475
<i>F. Catarino, P. Ferreira, C. López-Nozal, M.A. Barros-Del Rio</i>	
FORMATION OF META-COGNITIVE LEARNING STRATEGIES THROUGH MIND MAPPING	5476
<i>L. Kontrová</i>	
USING MIND-MAP TECHNOLOGY FOR ESP TRAINING: CASE STUDY OF ECOLOGY STUDENTS	5482
<i>K. Ulanova, N. Valeeva, M. Rudneva, YU. Zakirova, E. Pavlova</i>	
CHALLENGES OF ACQUIRING PROFESSION FOR NON-NATIVE MEDICAL STUDENTS	5487
<i>T. Dilaverova, L. Akhvlediani, N. Mazmishvili</i>	
OVERVIEW ON VISUALLY IMPAIRED GAMERS AND GAME ACCESSIBILITY	5491
<i>A. Prazaru, O. Balan, A. Moldoveanu, F. Moldoveanu, A. Morar, S. Ivascu</i>	
SOCIAL AND CULTURAL INTEGRATION OF IMMIGRANTS-EXPERIENCES IN ROMANIA	5502
<i>D. Mara</i>	
THE DESIGN PRINCIPLES OF A GAME FOR TREATING FEAR OF PUBLIC SPEAKING	5506
<i>A. Moldoveanu, C. Langrand, O. Balan, A. Morar, I. Mocanu, F. Moldoveanu</i>	
MINDFULNESS IN THE CLASSROOM: A TOOL TO INCREASE SELF-AWARENESS AND STUDENT PERFORMANCE	5512
<i>M. Rodríguez-García, M. Guijarro-García, A. Carrilero-Castillo</i>	
ORAL COMMUNICATION AND TEAMWORK SKILLS FOR ENGINEERING STUDENTS. APPLICATION TO SUBJECTS OF THERMAL SYSTEMS	5518
<i>S. Usón, I. Zabalza, B. Peña, J. Uche, E.M. Llera, B. Zalba, L.M. Romeo, M. Miana, I. Álvarez</i>	
SCHOOL-BASED DISCRIMINATION - BULLYING, IN THE EYES OF ALL	5524
<i>I. Vilela, N. Bessa Vilela</i>	
DIGITALIZATION OF ENGLISH LANGUAGE TRAINING AT TERTIARY LEVEL	5525
<i>M. Zakharova</i>	
ANALYSIS OF CO-EVALUATION OF ORAL PRESENTATIONS IN A MASTER SUBJECT ON THERMAL ENGINEERING	5529
<i>S. Usón, J. Uche, I. Zabalza</i>	
ANALYZING STUDENT BEHAVIOR IN MOOCS USING BIG DATA AND LEARNING ANALYTICS FOR TEXT ANALYSIS	5536
<i>M. de Oliveira Santos, A. Messias da Costa Souza, C. Fernando de Araújo Junior, A. Domingues Freitas</i>	
STAKEHOLDERS' INVOLVEMENT IN PARTICIPATORY DESIGN APPROACHES OF LEARNING ENVIRONMENTS: A SYSTEMATIC REVIEW OF THE LITERATURE	5543
<i>D. Pnevmatikos, P. Christodoulou, N. Fachantidis</i>	
THE DEVELOPMENT OF STUDENTS' SELF-REGULATION METHODS OF EMOTIONAL STATES	5553
<i>V. Kazarenkov, G. Kameneva, T. Kazarenkova, M. Rushina, T. Bui Thi Le</i>	
AN OPEN SOURCE TRAINING MANAGEMENT SYSTEM TO SUPPORT THE PERSONAL PHYSICAL AND MENTAL TRAINING	5558
<i>A. Stamatakis, A.M. Trampas, V. Kontoulis, A.K. Barianos, A. Papadakis, N. Vidakis</i>	

BUILDING ROBOTS AND LINGUISTIC CONFIDENCE: INTEGRATING INFORMATIONAL TEXTS AND MULTIMODAL LITERACY TOOLS IN AN AFTERSCHOOL FIRST LEGO LEAGUE ROBOTICS PROGRAM <i>R. Salas</i>	5567
GAMIFIED FLIPPED CLASSROOM AND ITS EVALUATION: BENEFITS OF THE ESCAPE ROOM METHOD <i>M. Orero-Blat, V. Simón-Moya, J. Sendra</i>	5568
EVALUATION OF THE UJAT ARCHITECTURE DESIGN WORKSHOP THROUGH LEARNING STYLE APPROACH <i>A.C. Lizardo Perez, S.G. Gomez Jimenez, F. J. Martínez Romero, F. Rodriguez Cordova, C.J. Morton Montemayor</i>	5576
THE TEACHER EDUCATOR AS ROLE MODEL FOR THE USE OF TECHNOLOGY FOR TEACHING AND LEARNING IN PRE-SERVICE EDUCATION: WHAT DO THEY DO AND WHAT DO THEY NEED TO LEARN? <i>D. Uerz, M. Kral</i>	5581
2030 AGENDA IN AVIATION EDUCATION <i>A.P. Pavel, S.E. Zaharia, C.V. Pietreanu</i>	5582
GENDER RELATED EFFECTIVENESS OF IN-VITRO TRAINING IN CARDIAC PACING - RESULTS OF A CONTROLLED TRIAL <i>T. Haber, C. Brenner, J. Melichercik, E.M. Bitzer, B. Ismer</i>	5592
ENTREPRENEURSHIP AS A CAREER OPPORTUNITY FOR STUDENT RECRUITMENT. ARE THE DIFFERENT FORMS OF PARTICIPATION SUFFICIENTLY KNOWN? <i>A.B. Alonso-Conde, J. Rojo-Suárez, S. Rentas</i>	5600
"DIABETES E-CARE" - MOBILE APPLICATION PROTOTYPE FOR SELF-CARE <i>N. Tachikawa, I. Kowalski, G. Guerra</i>	5607
LEARNING A PERSON-CENTERED APPROACH FOR PROJECT MANAGEMENT IN COMPUTER SCIENCE AND ENGINEERING <i>O. Peñalba, J.M. Mohedano</i>	5612
DESIGN OF DIDACTIC ACTIVITIES BASED ON CRITICAL THINKING <i>E. Prieto Larios, L. Enriquez Vazquez, G. De la Cruz Martínez</i>	5617
THE INTEGRATION OF ALTERNATIVE INVESTMENTS IN A SPECIAL PURPOSE VEHICLE CAPABLE TO SUPPLY THE EMERGENCY FUNDING IN EXTREME RISK EVENTS- THE CASE OF COVID -19 IN EMERGING MARKETS <i>M. Boscoianu, C. Ceocea</i>	5623
BUILDING THE NEW MILLENNIUM SKILLS FOR PROJECT MANAGEMENT IN HIGHER EDUCATION: HOW VIRTUAL WORLDS CAN HELP TEACHERS AND STUDENTS? <i>M. Gadille, V. Caraguel</i>	5628
A NEW APPROACH TO DIGITALISATION IN EDUCATION FOR THE DEVELOPMENT OF YOUNG TALENTS <i>P. Petrova, V. Jotsov, G. Dimitrov</i>	5637
PECULIARITIES OF RETRAINING THE ELDERLY IN THE FRAMEWORK OF PROFESSIONAL RESOCIALISATION: REGIONAL ASPECT <i>G. Bannykh, S. Kostina, T. Kasyanova, L. Voronina</i>	5644
COMMUNICATION DESIGN AS A CREATIVE TOOL. HOW GRAPHIC SOFTWARE COULD SUPPORT THE CREATIVE FASHION PROCESS <i>V. Linfante</i>	5652
EXPERIMENTAL ONTOLOGY-BASED EDUCATIONAL RECOMMENDER SYSTEM TO SUPPORT KNOWLEDGE ACQUISITION <i>L. Trifan, M.I. Dascălu, A. Malatov, I. Stănică, C. Mustață</i>	5659
AN ONLINE TOOL FOR STUDENT DIGITAL COMPETENCES SELF-ASSESSMENT <i>A.M. Sugliano, G. Carmeci</i>	5668
LEARNING ANALYTICS APPROACHES FOR BETTER EXPERIENCES IN E-LEARNING IN HIGHER EDUCATION <i>K. Al-Dosakee, N. Cavus</i>	5679
ADAPTATION DURING EDUCATIONAL MIGRATION AMONG CHINESE, AFRICAN AND LATIN AMERICAN STUDENTS IN RUSSIA <i>T. Chkhikvadze, L.N. Griffith, B.J.M. Vianney</i>	5687
CONFLICT MANAGEMENT METHODS FOR TEACHERS: THE CASE OF DEMOCRATIC DIALOGUE IN THE FLEMISH EDUCATIONAL LANDSCAPE <i>M.S. Göregen, V. Van Raemdonck</i>	5692

FEELING PRESENT: WHAT ELEMENTS DETERMINE THE FEELING OF PRESENCE IN A VIRTUAL ENVIRONMENT	5703
<i>A.M. Sugliano, A. Saracchi</i>	
USE OF VISUALIZATION TOOLS WHEN STUDYING SOME RUSSIAN VERBS OF POSITION IN SPACE BY FOREIGN STUDENTS	5714
<i>O. Koutsoni, A. Keyko, N. Kurmaeva</i>	
FORMATION OF COMPETENCIES FOR DIGITAL ECONOMY AT SCHOOL: EXPERIENCE OF RUSSIA	5718
<i>G. Bannykh, S. Kostina, O. Novikova</i>	
EVALUATION OF OPEN-SOURCE SOFTWARE FOR DEVELOPING COMPETENCIES IN MATHEMATICS AND ENVIRONMENTAL EXPLORATION SUBJECT	5726
<i>I.M. Radu</i>	
THE RURAL TEACHER AS A PROSUMER: THE POSSIBILITIES OF MOBILE DEVICES	5734
<i>J. Zambrano, V. Díaz, D. Montes</i>	
EVALUATION OF DISTANCE LEARNING COURSES IN ECONOMICS IN THE CONTEXT OF CURRENT TRENDS	5740
<i>M. Gonzalez Diaz, E. Zimbelmann, T. Rachfall</i>	
CONCEPT OF DEVELOPMENT OF SELECTED AREAS OF DIGITAL COMPETENCES IN SELECTED EDUCATIONAL FIELDS	5748
<i>P. Vaňková, T. Jeřábek</i>	
TRAINING THE TRAINERS CURRICULUM ON CO-CREATION OF VIRTUAL REALITY REUSABLE E-RESOURCES	5752
<i>S.T. Konstantinidis, H. Wharrad, M.M. Nikolaidou, P. Antoniou, K. Neokleous, E. Schiza, M. Matsangidou, F. Frangoudis, M. Hatziaros, M. Avraamides, P.D. Bamidis, C.S. Pattichis</i>	
PRODUCT SERVICE SYSTEM DESIGN TOUR: CO-CREATE A PILOT FIELD EDUCATION ACTIVITY IN DESIGN	5762
<i>A. Taverna</i>	
STEM EDUCATION IN LITHUANIA: THEORETICAL INSIGHTS AND PRACTICAL IMPLEMENTATION	5769
<i>N. Cibulskaitė, A. Augustinovič</i>	
REDEFINING THE PERCEPTION OF MODULE EVALUATION QUESTIONNAIRES (MEQS) IN ACADEMIA	5780
<i>M. Tareen, J.R. de Oliveira Leo, D.M. Russell, O.I. Tokode</i>	
THE PROGRAM OF EXTRACURRICULAR ACTIVITIES IN CHEMISTRY: "CHEMISTRY FOR CURIOUS SCHOOLCHILDREN"	5787
<i>D. Isaev, A. Sobolev, M. Pak</i>	
THE EXPERIENCE OF THE PUBLIC SPEAKING COMPONENT IMPLEMENTATION INTO THE CURRICULA OF THE FUTURE SPECIALISTS IN INTERNATIONAL LAW AND JOURNALISM BY THE EXAMPLE OF MONTHLY CONFERENCE LET'S TALK	5798
<i>K. Tkachenok, K. Stepanyan</i>	
PROJECT-BASED LEARNING IN THE TEACHING OF SPATIAL REPRESENTATIONS	5804
<i>L.E. González Arevalo, E. Prieto Larios, G. De la Cruz Martínez</i>	
INVESTIGATING HAPPINESS THROUGH COOPERATION: AN EVIDENCE OF NEW EXPERIENCES IN EDUCATION	5811
<i>L.M. Cerdá Suárez</i>	
THE IMPACT OF INTERNAL AUDITS ON AN INTERNAL QUALITY MANAGEMENT SYSTEM IN HIGHER EDUCATION IN PORTUGAL	5819
<i>N. Jesus-Silva</i>	
AUGMENTED REALITY IN HUMANITIES: TEACHING BOOK HISTORY IN THE DIGITAL AGE	5820
<i>P. Mukanova</i>	
SUPPORT TOOLS FOR VISUAL CREATION DURING ACADEMIC STUDIES	5825
<i>A. Miluniec, I. Miciuła</i>	
SLOVAK AS A FOREIGN LANGUAGE - TEACHING LANGUAGE THROUGH STORIES AND FAIRY TALES	5832
<i>Z. Kovacova Svocova, D. Smalley</i>	
SUCCESSFUL IMPLEMENTATION OF THE TRIPLE HELIX MODEL IN SPAIN	5837
<i>E.C. Dittmar, D. López Jiménez</i>	
RELATIONSHIP BETWEEN INTERNET ADDICTION, LIFE SATISFACTION AND ANXIETY IN PRE-SERVICE TEACHERS OF GENERATION Z	5843
<i>J. Kvintová, S. Dobešová Cakirpaloglu, R. Hájková</i>	

THE IMPACT OF DIGITAL COMMUNICATION ON PARENTS' ATTITUDES TOWARDS SCHOOL <i>D. Švelec-Juričić, L. Luić</i>	5850
AUGMENTED REALITY IN MATHEMATICS IN HIGH SCHOOL EDUCATION THROUGH SCIENTIFIC PRODUCTION <i>E. García Albaladejo, A. Gilabert Cerdá, A. Lledó Carreres, G. Lorenzo Lledó, E. Pérez Vázquez, A. Lorenzo Lledó</i>	5857
BUILDING MODELING WITH ARTIFICIAL INTELLIGENCE AND SPEECH RECOGNITION FOR LEARNING PURPOSE <i>F. Alotto, I. Scidà, A. Osello</i>	5866
SOCIO-EMOTIONAL WELL-BEING OF PUPILS IN THE COMPREHENSIVE SCHOOL SETTING <i>S. Ušča, A. Vanaga, D. Iliško, J. Badjanova, S. Zariņa</i>	5876
QUALITY CRITERIA FOR SERIOUS GAMES SHOWN ON MATHEMATICAL EDUCATION GAMES <i>M. Schaub, K. Straßburg, R. Bruder, P. Caserman, S. Göbel, K. Hoffmann, P. Müller, E. Staub</i>	5882
TEACHING-LEARNING PROCESS UNDER A MULTIDIRECTIONAL EFFICIENCY AND CANONICAL CORRELATION ANALYSIS <i>K. Murillo, E. Rocha</i>	5889
ENTREPRENEURSHIP-BASED LEARNING: A NEW APPROACH TO ENTREPRENEURSHIP AS A LEARNING METHOD <i>F. Cardoso Almeida, J. Pinheiro de Queiroz Neto</i>	5899
ACQUISITION OF EFFECTIVE COMMUNICATION AND LANGUAGE SKILLS THROUGH PUBLIC SPEAKING: A CASE STUDY OF THE INTERNATIONAL JOURNALISM FACULTY <i>K. Stepanyan, D. Milyukhina</i>	5905
DIGITAL COMPETENCES AS CORE COMPETENCES FOR LIFELONG LEARNING <i>J. Lasić Lazić, M. Milković, I.R. Žigo</i>	5911
THE CASE FOR UPLIFT MODELLING IN HIGHER EDUCATION <i>H. Abera, J. Loeckx</i>	5916
GRAPHIC DIARY MOOC: DEVELOPING A SLOW AND LEARNING BY DOING APPROACH TO DRAWING THROUGH GRAPHIC DIARIES <i>P. Ferreira, F. Catarino</i>	5923
DEVELOPMENT OF MOTOR SKILLS BY CHILD DIAGNOSED WITH CEREBRAL PALSY FROM THE PERSPECTIVE OF HELPING PROFESSIONS <i>P. Pecharová</i>	5924
VR-BASED KNOWLEDGE PRESERVATION IN CHEMICAL PROCESS INDUSTRY <i>N. Mencke, M. Vondran, N. Vorhauer, E. Nicolas, E. Tsotsas</i>	5928
SHARPENING LEARNING OUTCOMES IN MATHEMATICS WITH PEER ASSESSMENT AND HIGH-STAKE DELIVERABLES <i>B. Magnusson</i>	5936
DEVELOPMENT OF THE THEORETICAL MODEL OF CONTINUOUS METHODOLOGICAL TRAINING OF CHEMISTRY TEACHERS <i>A. Sobolev, D. Isaev</i>	5941
ADAPTIVE GAMIFICATION MODELS IN HIGHER EDUCATION: IS THERE A PLACE FOR SELF-REGULATED LEARNING? <i>M. Raleiras, J. Viana, F. Costa</i>	5949
PRELIMINARY USE OF KAHOOT AS AN INTERACTIVE TOOL FOR SELF-ASSESSMENT OF THEORETICAL CONCEPTS RELATED TO ANIMAL BREEDING <i>B. Gutiérrez-Gil, A. Suárez-Vega, J.J. Arranz</i>	5956
SCHOOLCHILDREN'S ORAL HEALTH OVERVIEW IN THE CITY OF MADRID <i>L. Baquero, M. Piñero, M.J. Berasategui, M. Miegimolle, L. Velayos, M. Espí, A. Adanero</i>	5957
21ST CENTURY EDUCATION TRENDS <i>M. Cárachová</i>	5965
KNOWLEDGE LEVEL OF UNIVERSITY STUDENTS ON LIFE AND HEALTH PROTECTION <i>F. Lenko, R. Lenková, A. Velás, Z. Zvaková</i>	5966
PROJECT GGULIVRR: GENERIC GAME FOR UBIQUITOUS LEARNING IN INTERACTIVE VIRTUAL AND REAL REALITIES <i>H. Akerlund, G. Audemard, H. Bollaert, V. Hayenne-Cuvillon, A. Hlobaz, M. Kozlenko, P. Milczarski, J.C. Monteiro, J. Morais, D. O'Reilly, P. Possemiers, Z. Stawska</i>	5973

CHANGEMAKERS FOR THE FUTURE: SOCIAL INNOVATION COMPETENCES FOR A DIGITALIZED WORLD IN LATIN AMERICAN COUNTRIES	5980
<i>A. Souza, M. Madaleno, M. Ferreira Dias, M. Amorim</i>	
THE USE OF BOARD GAMES AND THEIR DEVELOPMENT PRINCIPLES: A CASE REVIEW	5990
<i>P.N. Rito</i>	
A GLANCE AT UNIVERSITY TRAINING PROGRAMMES FOR THE EMPLOYMENT OF YOUNG PEOPLE WITH INTELLECTUAL DISABILITIES	5995
<i>S. Morales, J.L. Gomez</i>	
KNOWLEDGE STRUCTURING IN COMPUTER SCIENCE SUBJECTS	6003
<i>P. Vaňková, T. Jeřábek, E. Battistová</i>	
GAME BASED LEARNING ON TRANSVERSAL SKILLS DEVELOPMENT: AN APPLIED STATE OF THE ART	6010
<i>J. Reuter, M. Ferreira Dias, M. Madaleno, A. Amorim, A. Vitória</i>	
OPPORTUNITIES OF E-LEARNING PLATFORMS IN HIGHER EDUCATION	6020
<i>D. López Jiménez, E.C. Dittmar</i>	
CORPORATE EDUCATION - ONE OF THE OPTIONS TO SUPPORT THE COMPANY'S COMPETITIVENESS	6021
<i>M. Cárachová</i>	
EUROPE IN MY PROFESSION AS ARCHITECT AND PLANNER: OPPORTUNITIES, IMPACTS AND CHALLENGES	6028
<i>M. Tasheva-Petrova, V. Zlatinova-Pavlova</i>	
ARCHITECTURE AND PLANNING GRADUATES IN EUROPE: FROM STUDENTS TO PRACTITIONERS IN THE CONTEXT OF INTERNATIONALIZATION AND NATIONAL REGULATIONS	6038
<i>M. Tasheva-Petrova, V. Zlatinova-Pavlova</i>	
LEARNING BY HUMANS, NOT BY ROBOTS: ARTIFICIAL INTELLIGENCE, PERSONALIZED LEARNING AND PUBLIC INTEREST	6039
<i>G. Gantzias</i>	
LEARNING FLOW CONTROL STRUCTURES IN PROGRAMMING LANGUAGE USING EDUCATIONAL ROBOTICS	6040
<i>S. Varandas, A. Soares, P. Catarino</i>	
PLAY: HUMAN ACTIVITY AND THE EDUCATIONAL TOOL OF THE SCHOOL CONTEXT	6050
<i>M. Santi, M.C. Aguirre, M.X. Aguirre, G. Carvalho, W. Silva, A. Bezerra, W. Costa, E. Costa, B. Silva, V. Lima</i>	
PACKAGING DESIGN: ORIGAMI BASED LEARNING	6057
<i>A. Llorens Vargas, J. Alarcon Castro</i>	
STUDY OF THE IMPACT OF DIGITAL LITERACY IN PRIMARY EDUCATION CONTEXTS: DIAGNOSIS AND EVALUATION	6063
<i>A. Llorens Vargas, J. Alarcon Castro</i>	
THE PERSISTENT LACK OF ACCESS TO TECHNOLOGICAL RESOURCES AND EDUCATION IN UNDERSERVED AFRICAN AMERICAN COMMUNITIES	6071
<i>T. Clark, K. Anderson, N. Brown, H. Aubrey, T. Jordan, D. Hill-Eley, H. Swanson, E. Cameron</i>	
INTERDISCIPLINARY MODELING TO INTRODUCE SYSTEMS DYNAMIC IN DISCRETE TIME STEPS AT THE FIRST LEVEL IN ENGINEERING EDUCATION	6079
<i>E.A. Gago, P.A. Szekieta, N. de Brito</i>	
MACHINE IDENTIFICATION OF COLLABORATION DIALOGUE ACTS IN TYPED-CHAT COLLABORATIVE PROBLEM-SOLVING	6089
<i>M. Glass, J.H. Kim, J. Parham, J. Banks</i>	
FREE AND OPEN SOURCE SOFTWARE AND DATA FOR GOOD AND BAD TIMES	6090
<i>H. Grežo, R. Mišovičová, Z. Pucherová, F. Petrovič</i>	
CHARACTERIZATION OF PROJECTS BASED ON THE FREE AND OPEN SOURCE SOFTWARE MODEL, BY AUTONOMIC ORGANIZATIONS OF PRIMARY AND SECONDARY PUBLIC EDUCATION IN SPAIN	6095
<i>E. Astete-Martínez</i>	
TAKING IRAT OUTSIDE THE CLASSROOM: USING AN INTERACTIVE BOOK TO MODIFY TEAM-BASED LEARNING IN A FIRST-YEAR PROGRAMMING COURSE	6102
<i>C. Kesterson, J. Lai, M. Selim</i>	

TEACHING INFORMATION LITERACY SKILLS BY PROFESSORS FROM MEXICO AND CHILE	6109
<i>G. De la Cruz Martínez, E. Prieto Larios, R. Castañeda Martínez, J. Ramírez Ortega, F. Gamboa Rodríguez</i>	
ACTIVE STRATEGY FOR TEACHING MIGRATION IN THE HIGH SCHOOL IN MEXICO	6115
<i>M.A. Padilla Cano, G. Escobedo Izquierdo, E. Prieto Larios, G. De la Cruz Martínez</i>	
MOTIVATE INTERIOR DESIGN STUDENTS TO CREATE INNOVATIVE TRADITIONAL EMIRATI DESIGN ELEMENTS (AJMAN UNIVERSITY)	6121
<i>G. Elsayed Ali Elsamanoudy</i>	
DEVELOPING SKILLS IN TEACHING UNIVERSITY MATHEMATICS IN ENGINEERING CAREERS	6129
<i>E.A. Gago, A.E. Mascheroni, P.A. Szekieta</i>	
PLANTING A SOFT SKILLS SEED IN A FIRST-YEAR INTRODUCTORY PROGRAMMING CLASS USING TEAM-BASED LEARNING	6138
<i>J. Lai, C. Kesterson, M. Selim</i>	
A COMPARATIVE ANALYSIS OF THE NEW COMPREHENSIVE ALLIANCES FUNDED UNDER THE EUROPEAN UNIVERSITIES INITIATIVE	6146
<i>J. Sarupiciute, G. Druteikiene</i>	
IMPLEMENTING UNIVERSITY'S SOCIAL MISSION THROUGH THE ANNIVERSARY PR CAMPAIGN	6153
<i>J. Sarupiciute, G. Druteikiene</i>	
PROGRAMMING ASPECTS FOR NEXUS INTERIOR DESIGN LEARNING PROCESS	6158
<i>N. Sami Abdelaziz</i>	
THE TROUBLE WITH ONLINE LEARNING? AN ILL OR CURE FOR EMPLOYERS FACED WITH A GLOBAL PANDEMIC	6166
<i>S. McCotter</i>	
ENGLISH MEDIUM INSTRUCTION AND THE POTENTIAL OF TRANSLANGUAGING PRACTICES IN HIGHER EDUCATION	6173
<i>A. Dillon, G. Chell</i>	
WEB-BASED ROBOTICS REMOTE LAB	6174
<i>A. Ikhlef, B. Boukhezzar, N. Mansouri</i>	
NEW TRENDS IN TRAINING AND EDUCATION OF SECURITY GUARDS IN SELECTED REGIONS	6179
<i>Z. Zvaková, V. Šoltés, M. Boroš</i>	
PROMOTING OF THE GEOSPATIAL METHODS: INTRODUCTION INTO INTERNATIONAL EDUCATIONAL COURSES ON ENVIRONMENTAL MANAGEMENT IN THE MIDDLE-EAST	6186
<i>A. Mansourian, P. Pilesjo, M. Runnstrom, R. Groth, A. Gonçalves, A.P. Falcão, M. Kavouras, E. Tomai, E. Parseliunas, J. Sužiedelytė Visockienė, D. Popovas, R. Obuchovski, D. Slikas, J. Kozlovska, A. Buga, M. Prudham, J.F. Hangouët, A. Toomanian, N. Barati, H. Torabzadehkhorsani, M. Al-Shalabi, K. Khanbari, M. Almaliki, J. Othman</i>	
PRIORITIZATION OF USER EXPERIENCE ASPECTS FOR LEARNING ENVIRONMENTS	6196
<i>M. Klingbeil, J. Renz, D. Bruechner</i>	
EDUCATION FOCUSED ON "CHEMICAL COMPOSITION OF WASTE AND ITS PROPER SORTING" E-LEARNING FOR PRIMARY SCHOOL PUPILS	6206
<i>M. Feszterová, Z. Jenisová, M. Mišíaková</i>	
FINNISH EDUCATION SYSTEM BASED IN LEARNING BY DOING AND ENTREPRENEURIAL SKILLS. COMPARISON WITH THE SPANISH CULTURE AND EDUCATION	6214
<i>C. Ruiz-Viñals, E. Feliu</i>	
THE USE OF CONTEXTUAL LEARNING TO TEACH BIOCHEMISTRY IN THE DEGREE IN PHYSICAL ACTIVITY AND SPORT SCIENCES	6218
<i>M. Cuadros, P. Sanchez, M.I. Rodríguez-Lara, V. Sanchez-Martín, L.J. Martínez Gonzalez, M.A. García-Chaves, M.J. Alvarez-Cubero</i>	
A NEW WAY OF LEARNING BIOCHEMISTRY: CASE STUDY	6223
<i>P. Sanchez, M. Cuadros, V. Sánchez Martín, L.J. Martínez-González, M.A. García-Chaves, M.J. Álvarez-Cubero, M.I. Rodríguez-Lara</i>	
I CAN'T GET NO SATISFACTION: THOUGHTS AND FEELINGS ABOUT ELEMENTARY SCHOOL	6227
<i>D. Dias, R. Barroso</i>	

WHAT STUDENTS WANT: PREFERENCES ABOUT SCHOOL AND EXTRACURRICULAR ACTIVITIES IN PRIMARY SCHOOL <i>R. Barroso, D. Dias</i>	6233
SCHOOL READINESS: ROLE OF SCHOOLS REVISITED BY PARENTS, TEACHERS AND PRINCIPALS <i>D. Dias, R. Barroso</i>	6241
THE JANUS FACES OF SUCCESS: SOCIAL AND PERSONAL TRAITS AS PREDICTORS OF STUDENTS' PERFORMANCE IN ELEMENTARY SCHOOL <i>R. Barroso, D. Dias</i>	6248
ESL ACQUISITION METHODS IN ADULT EDUCATION <i>E. Antonova</i>	6254
INTERNET RESOURCES IN TEACHING ESL AND CULTURE: OPPORTUNITIES AND CHALLENGES <i>E. Antonova</i>	6259
IMPACT OF TEAM WORK ASSIGNMENTS IN TEACHING BASIC IT COURSES <i>A.B. Andreica</i>	6266
EVALUATING DIGITAL TEACHING MATERIAL <i>C. Bierschwale</i>	6278
MOTIVATION AND LEARNING STRATEGIES FOR HIGHER EDUCATION - "PARLIAMENTARY DEBATE METHOD" <i>C. Alexandrache</i>	6279
SEXTING ETIOLOGY AND POSSIBILITIES FOR INTERVENTION THROUGH INSTRUMENTAL ENRICHMENT <i>P. Jedlickova, K. Hollá, P. Seidler</i>	6287
POSSIBILITIES AND STRATEGIES OF PROBLEM SOLVING IN SECONDARY SCHOOL MATHEMATICS TEACHING <i>K. Antoš</i>	6298
USING SCIENTIFIC RESEARCH METHOD OF TEACHING FOR IMPROVING PUPILS' RESULTS IN MATHEMATICS <i>K. Antoš</i>	6306
CONTROL AND EVALUATION IN TEACHING <i>I. Szóköl</i>	6313
THE QUALITATIVE TRANSFORMATION OF UNDERSTANDING THE ESSENCE OF THE EDUCATION PROCESS AND LEARNING <i>I. Szóköl, M. Nagy</i>	6319
WHY EDUCATION 4.0 IS NOT ENOUGH – EDUCATION FOR SUSTAINABLE FUTURE <i>T. Konst, M. Scheinin</i>	6326
ASSESSING THE LEVEL OF FINANCIAL LITERACY OF STUDENTS AT A SELECTED UNIVERSITY <i>M. Beranová, M. Navrátilová</i>	6331
SOCIAL CONTEXT OF CHILD READING IN ONTOGENETIC COMPARISON <i>S. Babiakova, B. Kasáčová</i>	6341
PREVIOUS EXPERIENCE AND PRECLINICAL PRACTICAL SKILLS OF FIRST YEAR STUDENTS OF ODONTOLOGY <i>C. González Losada, V. Vera, C. Bravo- Llatas</i>	6352
DETECTING STUDENTS AT RISK USING MACHINE LEARNING <i>O. Hall Jr.</i>	6360
WAYS OF TEACHING FUNCTIONAL PARTS OF SPEECH TO YOUNG LEARNERS <i>A. Pushkina, L. Krivoslykova</i>	6361
ALIGNING COURSE ASSESSMENT METHODS TO PROGRAM ASSESSMENT STRATEGY IN HIGHER EDUCATION <i>P. Pestovs, S. Zariņa, J. Badjanova, D. Iliško, L. Popova</i>	6366
CONTINUOUS IMPROVEMENT OF THE INSTITUTIONAL REVIEW BOARD AT ONE COMPLETELY ONLINE UNIVERSITY: A TRANSFERABLE FRAMEWORK <i>T. Lehan, H. Hussey</i>	6373
THE STUDY OF THE CONSCIOUS AGGRESSION IN CHILDREN WITH SPEECH DISORDERS <i>O. Bielova, O. Milevska, Y. Haletska, L. Lisova</i>	6374
DIGITAL DEXTERITY FOR THE FUTURE OF WORK <i>C.M. Montaudon-Tomas, I.N. Pinto-López, A.L. Yáñez-Moneda</i>	6379

NEW WAYS OF WORKING IN TIMES OF CRISIS IN HIGHER EDUCATION <i>C.M. Montaudon-Tomas, I.N. Pinto-López, A.L. Yáñez-Moneda</i>	6388
UNIVERSITY TEACHING IN THE DAYS OF COVID-19 <i>F. Zuccoli, L. Teruggi</i>	6397
PRINCIPAL COMPONENT ANALYSIS (PCA) FOR ASSESSING THE STUDENTS' PERCEPTION TOWARD THE USE OF KAHOOT! IN HIGHER EDUCATION <i>J. Gallego, F. Gulisano, L.A. Sánchez, J.R. Marcobal</i>	6404
FROM THE LESSONS OF COVID-19, A WHOLE NEW WORLD IN EDUCATION? <i>D.N. Dominguez-Perez, N. Dominguez-Vergara</i>	6412
TRANSFER OF TRAINING IN MIDDLE LEADER TEACHERS' PROFESSIONAL DEVELOPMENT FOR ICT INTEGRATION IN SCHOOLS <i>K. Terashima, S. Itagaki</i>	6422
AN INVESTIGATION ON THE EMERGING 'SOCIAL INNOVATION' TREND IN THE UNIVERSITIES: BEST PRACTICES FROM SOUTHEAST ASIA <i>F. Abd Majid, W.N.E.H. Sharil</i>	6427
SCHOLARSHIPS OF TEACHING & LEARNING AMIDST THE PREPARATION FOR INDUSTRY REVOLUTION 4.0: IMPLICATIONS FOR THE ACADEMICS' PROFESSIONAL DEVELOPMENT TRAINING NEEDS <i>F. Abd Majid</i>	6436
IMPLEMENTATION OF FABLABS IN THE MINES AND ENERGY ENGINEERING STUDIES <i>F. Barrio-Parra, B. Biosca, C. Montalvo, L.A. Torres, M. Izquierdo-Díaz, D. Bolonio, F.J. Ortega, L.F. Mazadiego, L.J. Fernandez-Gutierrez del Alamo</i>	6446
REDUCING INEQUALITIES IN MASTER DEGREE STUDENTS DUE TO SKEWED CURRICULA <i>R. Roman, C. Alcaraz, R. Rios, J.E. Rubio, J. Lopez</i>	6455
CHANGES IN THE ARGUMENTATION CHARACTERISTICS OF MATHEMATICALLY GIFTED STUDENTS – A LONGITUDINAL STUDY <i>S. Jablonski, M. Ludwig</i>	6464
DIDACTIC ACTIVITIES IN TEACHING OF GEOGRAPHY IN PRE-SCHOOL AND SCHOOL FACILITIES FOCUSED ON NATURE CONSERVATION <i>L. Petrikovičová, L. Wittlinger</i>	6473
AUGMENTED LEARNING: EFFECTS OF AUGMENTED REALITY SUPPORTED INSTRUCTION ON SPATIAL ABILITY <i>X.R. Reit</i>	6481
DIVERSE EXPERIENCES LEAD TO HIGHER CREATIVITY IN UNDERGRADUATE STUDENTS <i>V. Tidikis, N. Dunbar</i>	6486
PRODUCTIVE TEACHING OF FUTURE PHYSICS AND MATHEMATICS TEACHERS IN A DIGITAL EDUCATIONAL ENVIRONMENT <i>M. Dammer, E. Leonova, V. Kudinov</i>	6491
UNDERGRADUATE STUDENTS' SELF-EFFICACY IN USING ENGLISH TO COMMUNICATE AS A SECOND LANGUAGE <i>J.C. Lee, A. S. Shminan, S. Bujang, M.H. Barawi, M. A/L. Rathakrishnan</i>	6500
STEM LEARNING OF UNDERGRADUATE STUDENTS THROUGH PARTICIPATION IN OUT-OF-CURRICULUM OUTREACH PROJECT ACTIVITIES AND THEIR MOTIVATION <i>M. Hasegawa</i>	6509
HIDDEN LIFE OF FARMED ANIMALS – THE ROLE OF HIGHER EDUCATION AS A CHANGE MAKER <i>T. Konst</i>	6515
LEADERSHIP SKILLS, ATTITUDES AND PRACTICES AS A MECHANISM TO DEAL WITH CONFLICT OF INTEREST IN THE UNIVERSITY INFORMATION ENVIRONMENT <i>H. Vasileva</i>	6520
THE CONSIDERATIONS REGARDING THE PROJECTION OF THE ONLINE COURSE FOR TRAINING THE REMOTE PILOTS IN RPAS FIELD IN THE NATIONAL DEFENSE UNIVERSITY "CAROL I" <i>L.R. Popescu</i>	6524

ACTIVE LEARNING IN ENGINEERING EDUCATION: EXPERIENCES IN ASIA AND EUROPE	6531
<i>H. Tsalapatas, C. Vaz de Carvalho, O. Heidmann, C. Taka, S.S. Salim, A. Abu Bakar, R.J. Yusof, T.R. Bajracharya, S.R. Shakya</i>	
DEVELOPMENT OF TEACHING SKILLS UTILIZING ICT BY IMPROVEMENT OF LESSON PLANS	6537
<i>C. Yata, S. Itagaki, N. Yamaguchi</i>	
THE REPRESENTATION OF INTERCULTURAL ISSUES IN TAIWAN'S HIGH SCHOOL EFL TEXTBOOKS	6547
<i>Y.C. Su</i>	
INCORPORATING THE CULTURAL PORTFOLIO PROJECTS IN EFL COLLEGE CLASSES: THEORY AND PRACTICE	6548
<i>Y.C. Su</i>	
PROGRAMMING FOR GIRLS: A GAME-BASED APPROACH THAT DEPLOYS DESIGN THINKING PRINCIPLES	6549
<i>O. Heidmann, C. Katsimentes, S. Panagiotopoulos, H. Tsalapatas</i>	
RELEVANCE OF INDIGENOUS KNOWLEDGE INTEGRATION IN LIFE SCIENCES TEACHING: WHAT DO THE TEACHERS SAY?	6556
<i>L. Mavuru, X.K. Makhunga</i>	
CLASSIFYING EMPIRICAL STUDIES IN AN EDUCATIONAL CONTEXT THROUGH AN EXPERIMENTATION FRAMEWORK	6564
<i>L. Alves, P. Ribeiro, R. Machado</i>	
PREPARING COMPUTER SCIENCE STUDENTS FOR JOB INTERVIEWS WITH ENGLISH VIDEO PRODUCTION AND ANALYSIS: A RESEARCH MODEL	6575
<i>D. Roy</i>	
LEARNING ENTREPRENEURSHIP-FOCUSED INFORMATION DESIGN FOR SMART HOMES IN A PROJECT-BASED LANGUAGE LEARNING CLASSROOM	6585
<i>D. Roy, P. Kudry, K. Naya</i>	
TRANSFERRING METHODS AND RITUALS FROM SOFTWARE ENGINEER TO EVERYDAY EDUCATIONAL LIFE IN PANDEMIC SCENARIOS	6596
<i>M. Ullm, H. Schwab, E. Krainz</i>	
DESIGN AND IMPLEMENTATION OF A BILINGUAL PRACTICE MODEL TO IMPROVE THE ACQUISITION OF SPECIFIC STATISTICAL INFERENCE SKILLS	6601
<i>A.M. Martínez-Rodríguez, A. Oya-Lechuga</i>	
INTERVIEWING MODEL TO ENHANCE PROCESS MODELLING EDUCATION	6605
<i>S. Candrljic, M. Pavlic, M. Asenbrenner Katic</i>	
INSTRUCTORS AND STUDENTS ON THE SAME PAGE: USABILITY OF INSTRUCTOR LOADED RESOURCES IN LMS SITES	6614
<i>G. Torrisi-Steele, T. Atkinson</i>	
PREDICTIVE RELATIONSHIPS BETWEEN THE SELF-ESTEEM AND LIFE SATISFACTION IN PERUVIAN ADOLESCENTS	6620
<i>F.N. Real-Torres, I. Iraola-Real, K. Iraola-Real, W. Iraola-Real</i>	
THE IMPACT OF DIGITAL MATHEMATICS ENRICHMENT CURRICULUM ON GIFTED FEMALE STUDENTS LEARNING	6625
<i>N.S. Alhazzani</i>	
BUILDING BRIDGES TO STEM CAREERS FOR MINORITY STUDENTS IN MINNESOTA	6637
<i>A. Asojo, H. Vo</i>	
DIGITAL TEACHING-LEARNING IN LAW	6642
<i>M.J. Mimoso, M.R. Anjos</i>	
E-LEARNING TOOL TO CREATE AND MANAGE A CIVIC E-CAMPAIGN	6648
<i>R. Rădescu</i>	
AUTOMATIC ADAPTIVE SYSTEM FOR FILTERING FAKE NEWS BY METHODS BASED ON ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING	6659
<i>R. Rădescu</i>	
EFFECTIVENESS OF THE EMOTIONAL AND SOCIAL CAPABILITIES APPROACH IN UNIVERSITY STUDENTS	6668
<i>J.J. Pérez-Barea, A. García-Jurado, D. Taskan</i>	
SMARTPHONE CONTRIBUTION IN HIGHER EDUCATION: MEASURING SATISFACTION AND ATTENTION LEVEL	6669
<i>E. Salmerón-Manzano, A. Alcayde García, A.J. Zapata, F. Manzano-Agugliaro</i>	

TELEGRAM CHAT AS A MOBILE TEACHING TOOL: EXPERIENCE IN THE COVID-19 CRISIS	6679
<i>E. Salmerón-Manzano, A. Alcayde García, A.J. Zapata, F. Manzano-Agugliaro</i>	
TEACHING VISUAL COMPUTING AS A POST-DOCTORAL AREA IN A SMALL UNIVERSITY	6688
<i>C.S. Yang</i>	
A PRELIMINARY STUDY OF FEASIBILITY OF IMPLEMENTING A VIRTUAL REALITY SYSTEM FOR BRAIN SCIENCE LEARNING COMMUNICATION	6697
<i>T.S. Lin, S.S.C. Young</i>	
INCLUSIVE CLASSROOM ENVIRONMENT THAT ENHANCE LEARNING	6706
<i>C. Ateh</i>	
CASE STUDY: EXPERIENCE IN ABRUPT TRANSITION TO ONLINE TEACHING DURING THE COVID-19 PANDEMIC	6707
<i>C. Ateh, K. O'Connor, C. Rolon, B. McCadden</i>	
IMPACT OF INTERPROFESSIONAL EDUCATION ON STUDENTS' AND PATIENTS' UNDERSTANDING ON HEALTH LITERACY IN THE COMMUNITY	6708
<i>V. Lee, J. Chau, P. Lai, S. Wong, W. Chan</i>	
REFUGEE YOUTH: NO HUMAN BEING IS ILLEGAL	6709
<i>L. Kajee</i>	
INVOLVING THE STUDENTS IN THE EUROPEAN PROJECTS THROUGH THE FOCUS GROUP DYNAMIC: THE CASE OF AIMED – AIMING TO EDUCATE BY PROMOTING THE ACADEMIC DIMENSION OF ERASMUS+	6715
<i>S. Trasobares, C.E. Castillo, J.M. Piñero-López, N. Gómez-Aguilar</i>	
DEVELOPMENT OF TRANSVERSAL SKILLS IN UNIVERSITY STUDENTS THROUGH EDUCATIONAL ACCOMPANIMENT	6716
<i>S. Muñoz, P. Crespi, M.F. Gambarini</i>	
TRADITIONAL DIMENSIONS AND INNOVATIVE PARAMETERS OF NON-FORMAL ADULT EDUCATION	6721
<i>V. Vassileva, D. Stoyanova</i>	
UNIVERSITY-INDUSTRY COLLABORATION IN HIGHER EDUCATION – INDUSTRY VIEWS ON INVESTING IN INDUSTRIAL PHD STUDENTS	6726
<i>A.K. Olsson, I. Bernhard</i>	
THE ROLE OF KEY COMPETENCES IN SCHOOL TEACHING	6734
<i>V. Vassileva, D. Stoyanova</i>	
CONNECTING SPEECH-LANGUAGE PATHOLOGY GRADUATE STUDENTS TO THEIR FUTURE; TELEPRACTICE PEDAGOGY IN THE CLASSROOM	6740
<i>L. Lenkey</i>	
STRUCTURING EDUCATIONAL CONCEPTS FOR APPLIED STEM TEACHING	6741
<i>M. Fojcik, M.K. Fojcik, B. Pollen, C.G. Helgesen, J.O.R. Mjånes</i>	
APPLYING STEM IN EMBEDDED SYSTEMS TEACHING SUPPORTED BY ARDUINO	6750
<i>M. Novak, J. Pech, J. Kalova, J. Bárta</i>	
AN EXAMPLE OF SUCCESSFUL USE OF SIMULATIONS INTO CHEMICAL ENGINEERING CORE MATTERS	6757
<i>C. Roman, M.A. Delgado, J. Ramírez, M. García-Morales</i>	
EDUCATIONAL JUSTICE	6765
<i>C. Hall, W. Walter, A. Livingston</i>	
DESIGN PRINCIPLES OF COLLABORATIVE LEARNING SPACE CONNECTING TEACHERS AND REFUGEE CHILDREN - A DESIGN SCIENCE RESEARCH STUDY	6771
<i>I. Nurhas, M. Boutouil, S. Geisler, J. Pawlowski</i>	
RESEARCH-BASED LEARNING: AN APPLICATION FOR GRADUATE AND POSTGRADUATE STUDENTS IN BUILDING	6781
<i>C. Morón, D. Ferrández, E. Yedra, F. Muñoz</i>	
GAMIFICATION OF THE MATHEMATICS COURSE FOR PRE-SERVICE PRESCHOOL AND PRIMARY SCHOOL TEACHERS	6787
<i>I. Zsoldos-Marchis</i>	
WHERE THE MUSEUM MEETS SCHOOLS: CREATING A COLLABORATIVE INSTRUCTIONAL GUIDE	6795
<i>E. Polyudova, E. Olesina</i>	
OPINION ON INCLUSIVE EDUCATION OF TEACHERS AND PARENTS OF NON-DISABLED CHILDREN IN RUSSIA – PILOT STUDY	6801
<i>E.M. Kulesza, A. Zarin, S.Y. Ilina</i>	

THE ART OF TEACHING WITH HUMOR <i>T. Evans-Palmer</i>	6808
DEVELOPMENT ZONES OF TAIWANESE CHILDREN IN PRESCHOOL AGE <i>E.M. Kulesza, C.H. Huang</i>	6814
FREEDOM AND RESPONSIBILITY IN THE STUDENT-TEACHER RELATIONSHIP IN HIGHER EDUCATION TRANSITIONED TO ONLINE VOICE INSTRUCTION: CONSIDERATION OF THE INFLUENCE OF JEAN-PAUL SARTRE'S PRINCIPLES <i>S. Boddie</i>	6820
A COMPARATIVE STUDY OF THE IMPORTANCE OF DANCE IN THE SELF-ESTEEM OF YOUNG UNIVERSITY STUDENTS <i>F.N. Real-Torres, K. Iraola-Real, I. Iraola-Real, M. Iraola-Real, E. Iraola-Real</i>	6827
SUMMARISING INITIAL RESULTS OF SHIFTING TO DISTANCE LEARNING URGED BY CORONAVIRUS PANDEMIC <i>S. Sorokina, K. Ulanova, O. Musorina</i>	6831
DEVELOPING JOB INTERVIEW SKILLS WITHIN BTEC INTERNATIONAL BUSINESS PROGRAMME <i>S. Sorokina</i>	6840
DEVELOPMENT EDUCATION PROJECT IN UKRAINE TO IMPROVE THE QUALITY OF MEDIA LITERACY: A CASE OF MEDIASCHOOL GRINCHENKO UNIVERSITY <i>M. Netreba, H. Horbenko</i>	6849
A MOBILE-BASED APPROACH TO ASSIST LEARNING IN A POLYMER TECHNOLOGY COURSE <i>C. Roman, M. García-Morales</i>	6856
STARTUP AS A DIPLOMA MASTER'S PROJECT: FROM THE IDEA TO A PRACTICAL IMPLEMENTATION <i>H. Horbenko, M. Netreba</i>	6864
APPLYING ADULT LEARNING THEORIES IN DIGITAL EDUCATIONAL AND TRAINING PROGRAMS <i>A. Makri, D. Vlachopoulos</i>	6869
THE ELECTRONIC DICTIONARY OF CURRENT EAST SLAVONIC PROVERBS AS A TOOL FOR PROJECT BASED LEARNING <i>M. Kotova, N. Boeva, O. Sergienko</i>	6879
DIGITAL SOURCES FOR PAREMIOLOGICAL RESEARCH ON TRANSNATIONAL PROSE <i>M. Kotova, D. Lakomova</i>	6884
HISTORIC PLANT BIOLOGY EXPERIMENTS INTEGRATED WITH MODERN TECHNOLOGY <i>T.J.J. McCloughlin</i>	6890
DISTINGUISHING CRITICAL SITUATIONS IN LANGUAGE LEARNING USING AVIATION GAMING SOFTWARE <i>M. Landry, L. Landryova</i>	6895
AUGMENTED REALITY OF HERBARIUM SPECIMENS IN BIOLOGY EDUCATION <i>T.J.J. McCloughlin</i>	6902
A PROPOSAL TO PROMOTE THE PARTICIPATION OF JAPANESE PEOPLE WITH LOW-INTEREST IN SCIENCE COMMUNICATION <i>M. Nakamura</i>	6906
REGIONAL DIFFERENCES IN STUDENTS' READING, MATHEMATICS AND SCIENCE OUTCOMES ON PISA 2018 IN RUSSIA <i>K. Adamovich</i>	6913
SPATIAL DIFFERENCES IN ACCESS TO SCHOOL RESOURCES, EDUCATIONAL TRAJECTORIES, AND ACADEMIC RESULTS AFTER 9TH AND 11TH GRADES: MULTILEVEL ANALYSIS ON RUSSIAN DATA <i>K. Adamovich</i>	6920
PRINCIPAL'S LEADERSHIP PRESENCE IN SOCIAL MEDIA NETWORKS <i>N. Elyakim, Y. Buskila, T. Chen-Levi, H. Altarac, L. Shaked</i>	6925
COMPARISON OF APPROACHES TO THE USE OF WEB AND MOBILE APPLICATIONS IN TEACHING ALGORITHMIZATION AND PROGRAMMING IN THE CZECH REPUBLIC AND ABROAD <i>T. Dragon, M. Klement</i>	6926
GIFTED STUDENTS' USE OF COMPUTATIONAL THINKING SKILLS APPROACHING A GRAPH PROBLEM: A CASE STUDY <i>S. Wetzel, G. Milicic, M. Ludwig</i>	6936

CHALLENGES WITH THE INTRODUCTION OF A «PROJECT MANAGEMENT GAME» IN HIGHER EDUCATION	6945
<i>R. Andersen, K.E. Bonnier, D. Jaccard</i>	
PEDAGOGICAL IMPLICATIONS OF THE USE OF ENGLISH IN NIGERIA	6951
<i>L. Chimuanya, C. Awonuga</i>	
SELECTED ASPECTS OF SEXUAL EDUCATION OF PEOPLE WITH INTELLECTUAL DISABILITIES	6960
<i>Z. Kozáková, P. Hermanová</i>	
PINKAMP: A NOVEL EDUCATIONAL FORMAT FOR THE RECRUITMENT OF HIGH SCHOOL GIRLS IN STEM SUBJECTS	6967
<i>A. Di Marco, L. Tarantino</i>	
ONLINE LEARNING: STUDENT ACTIVITIES AND THEIR PRIVACY CONCERNS	6977
<i>R. Mekovec</i>	
TRANSFORMING LECTURE CLASSROOMS INTO ONLINE LECTURES IN RECORD TIME	6984
<i>L. Prieto González, A. de Amescua Seco, M. Sánchez-Segura, J.M. Gómez Berbis</i>	
LEARNING ANALYTICS IN A NEXT GENERATION DIGITAL LEARNING ENVIRONMENT - LESSONS LEARNED AND EXPERIENCE FROM SECONDARY EDUCATION TEACHERS	6994
<i>I. Otero-González, D. Pantazatos, M. Grammatikou, D. Docampo</i>	
COMPUTATIONAL THINKING AND ITS DEVELOPMENT: TYPOLOGY OF PRIMARY SCHOOL STUDENTS BY THEIR PREFERENCE OF COMPUTING TOPICS	7002
<i>M. Klement, T. Dragon</i>	
REPORT ON THE SELF-STUDY BEHAVIOR IN LEARNING FROM VIDEO LECTURES DURING A CONFINEMENT PERIOD	7010
<i>A. Figueira</i>	
SPORTS EDUCATION IN RUSSIA. CRUCIAL ASPECTS AND CHARACTERISTIC FEATURES	7016
<i>N. Parkhitko, S. Martynenko, O. Gordeeva</i>	
ONLINE INVIGILATION: PERSPECTIVES FROM MULTIPLE PRACTITIONERS	7024
<i>M. Lilley, G. Nashi, A. Pyper</i>	
DISTANCE LEARNING DURING A PANDEMIA. HOW TO MAINTAIN AN ACTIVE LEARNING APPROACH: THE CASE STUDY OF SPACE4INSPIRATION COURSE	7029
<i>A. Dominoni, B. Quaquaro</i>	
A CASE – BASED LEARNING APPROACH IN BIG DATA KNOWLEDGE DOMAIN. EXPERIMENTAL LABORATORY SESSION IN DATA ANALYSIS AND APPLICATION PROGRAMMING INTERFACE	7039
<i>L. Gotsev, E. Shoikova</i>	
TEACHING PRACTICAL SKILLS - RESPONDING TO ONLINE LEARNING IN TIMES OF NEED	7050
<i>A.M. Simon</i>	
KEY INFLUENCING VARIABLES IN DEVELOPING ENGLISH LANGUAGE LISTENING SKILLS IN CHINA	7057
<i>J.B. Yang, M. Valcke</i>	
EVALUATING DESIGN THINKING TEACHING	7063
<i>A. Alyami, I. Hawryszkiewicz</i>	
A META-ANALYSIS OF THE TAIWANESE PEDAGOGICAL AGENT STUDIES IN E-LEARNING ENVIRONMENTS	7069
<i>T.H. Peng, T.H. Wang</i>	
DESIGN, USAGE AND IMPLEMENTATION OF AN AUGMENTED REALITY-BASED APP DESIGNED TO TRAIN SPATIAL SKILLS	7074
<i>R. Llorens, J. Martín Gutiérrez, M. Contero, M. Alcañiz</i>	
THE MORAL REASONING OF PUPILS IN MANAGING CONFLICTS	7081
<i>S. Ferkova, J. Derkova, M. Kuruc</i>	
RESEARCH INTO SCHOOL AND FAMILY COOPERATION FROM THE PERSPECTIVE OF TEACHERS AND PARENTS	7091
<i>E. Toblova, S. Ferkova, A. Poliakova</i>	
THE FOREST AS A SCIENTIFIC LABORATORY FOR A TEACHING EXPERIENCE IN A HIGH SCHOOL	7100
<i>G. Tagliaferri, G. Pesaresi, M.C. Carlà Campa, A. Raschi</i>	

STUDY THE EFFECTIVENESS OF MOBILE LEARNING ON THE IMPROVEMENT OF MATHEMATICS LEARNING INTEREST OF THE SECOND GRADERS IN A PRIMARY SCHOOL	7106
<i>C.H. Kao, T.H. Wang, T.J. Wang</i>	
A NEW IDEA OF COFFEE: THE CONCEPT OF COCKTAIL-CAPPUCCINO	7110
<i>M. Bisson, F. Memo, S. Palmieri, A. Ianniello</i>	
A GAME-BASED, ACTIVE LEARNING APPROACH FOR BUILDING 21ST CENTURY SKILLS IN ENGINEERING AND ECONOMICS HIGHER EDUCATION	7116
<i>H. Tsalapatas, O. Heidmann, C. Katsimentes, S. Panagiotopoulos, C. Taka, C. Vaz de Carvalho, T. Jesmin, J. Terasmaa, M. Caeiro Rodriguez, L. Tolstrup Sørensen</i>	
GOING ONLINE LEARNING FULLY: THE CHALLENGES AWAIT	7124
<i>J. Juhary</i>	
HOW TO FORM ETHNOLINGUISTIC COMPETENCE AMONG FOREIGN STUDENTS OUTSIDE THE LANGUAGE ENVIRONMENT: AN ITALIAN EXPERIENCE	7134
<i>A. Carluccio, I. Rubakova</i>	
COMPARATIVE STUDY ON PERCEPTION OF PAPER AND DIGITAL TEXTS WHEN WORKING WITH HEARING IMPAIRED STUDENTS	7141
<i>E. Ponomarenko, Y. Krasavina, O. Zhuykova, Y. Serebryakova</i>	
A TECHNICAL REPORT ON LINKING TALIS 2013 AND PISA 2012: DEVELOPING A MULTI-LEVEL PERSPECTIVE ON THE STUDENT, TEACHER AND SCHOOL-LEVEL VARIABLES RELATED TO MATHEMATICS ACHIEVEMENT	7147
<i>X. Liu, M. Valcke, K. Yang Hansen, J. De Neve</i>	
THE WRITING SKILLS ASSESSMENT AMONG STUDENTS WITH AND WITHOUT HEARING IMPAIRMENT	7154
<i>Y. Serebryakova, E. Ponomarenko, Y. Krasavina, O. Zhuykova</i>	
TEACHING NEW DESIGN PROCESSES TO ENVISION FUTURE SCENARIOS	7160
<i>E. Chiodo, M. Aquila</i>	
COMMUNICATION DESIGN FOR PLASTIC POLLUTION: #SOUVENIRDAMARE FIFTEEN STORIES RETURNED BY THE WAVES	7166
<i>E. Chiodo</i>	
MAPPING AND SEGMENTING THE ONLINE EDUCATION STUDENT EXPERIENCE	7170
<i>J. Harvey, B. Tretola</i>	
EVOLUTION OF SPATIAL ABILITY IN FRESHMAN ENGINEERING STUDENTS: A COMPARISON BETWEEN 2012 AND 2019 COHORTS	7172
<i>R. Llorens, M. Contero, M. Alcañiz</i>	
USING EFFECTIVE LEARNING STRATEGIES FOR LEARNING TO LEARN: A TEACHING AND LEARNING PROPOSAL	7180
<i>Y. Cerezo López, M.D. Vivas Urías</i>	
USING TEXTUAL PROGRAMMING TOOLS TO DEVELOP COMPUTATIONAL THINKING SKILLS IN K-12 EDUCATION	7188
<i>N. Humble</i>	
DEVELOPING A WEB APPLICATION FOR AUTO-GENERATING GRAMMAR TESTS	7196
<i>N. Humble</i>	
COGENERATION FOR DESIGN TRAINING: NEW FRONTIERS FOR A CONTINUOUS GROWTH	7202
<i>M. Bisson, M. Zinzzone, S. Palmieri, A. Ianniello</i>	
DOES STUDENT SATISFACTION GROW WITH MORE INTERACTIVE AND HANDS-ON TEACHING? - AN EXAMPLE OF GOOD PRACTICE	7212
<i>P. Poscic</i>	
DIGITAL EDUCATIONAL ENVIRONMENT: ARE NEW FORMS OF DIDACTOGENY POSSIBLE?	7217
<i>A. Vladyko, T. Rezer</i>	
CONNECT-ID PROJECT. APPROACH AND ANALYSIS MECHANISMS OF HYPERCONNECTED YOUTH IDENTITY	7221
<i>A. Murciano Hueso, B.M. Gutiérrez Pérez, J. Martín Lucas, J.M. Muñoz Rodríguez</i>	
CONSCIOUS EDUCATION: A NEW THEORY BASED ON JAPANOLGY EXAMPLES	7227
<i>G. Petkova</i>	
ECONOMIC EDUCATION CHALLENGES DURING CORONAVIRUS PANDEMIC	7233
<i>M.C. Suciu, A.T. Paşa</i>	

STEM PROJECTS IN A MIDDLE SCHOOL: A PATH TO STIMULATE CREATIVITY IN YOUNG STUDENTS	7242
<i>M. Hahn, P.S. Carvalho</i>	
MIXED METHODS ASSESSMENT STRATEGY: THE CASE OF A FUTURE OF WORK MODULE	7251
<i>M. Coleman, M. Jennings, R. Hennigan</i>	
GAME BASED LEARNING (GBL) IN PRIMARY SCHOOLS FROM ROMANIA	7255
<i>I. Zsoldos-Marchis, T.H. Hari</i>	
BIG DATA MINING IN SKILLS 4.0 FOR AMELIORATING I4.0	7261
<i>D. Farid, A. Sekhari, O. Yacine</i>	
THE ANALYSIS OF SELECTED FACTORS AFFECTING SAFE ONLINE ENVIRONMENT OF THE ADOLESCENTS	7271
<i>V. Poláčková, H. Zelená</i>	
CLUSTER-BASED KNOWLEDGE TRANSFER APPROACH FOR SMART FARMING	7279
<i>D. Farid, A. Sekhari, O. Yacine</i>	
THE IMPORTANCE OF ALCOHOL CONSUMPTION AMONG YOUNG PEOPLE: AN APPROACH AT AN INSTITUTE OF MADRID	7286
<i>I. Recalde, A. Morón, D. Ferrández, C. Morón</i>	
INTERNATIONAL BOULEVARD: EXPLORING A NEW WAY OF TEACHING ARCHITECTURAL HOUSING STUDIO	7295
<i>R. Davids</i>	
THE RESEARCH OF PSYCHOLOGICAL WELL-BEING PREDICTORS: COMPARATIVE STUDY OF TEACHERS IN LATVIA AND RUSSIA	7302
<i>S. Ignatjeva, Z. Bruk</i>	
FRAGMENTS FROM SOVIET AND RUSSIAN CARTOONS AS A TOOL FOR FORMING AUDITIVE SKILLS AND LINGUOCULTUROLOGICAL COMPETENCE IN TEACHING A FOREIGN LANGUAGE	7312
<i>S. Deryabina, O. Aleksandrova, A. Petrova, P. Zavarukhina</i>	
CHANGING PRACTICES AND SELF-REFLECTION? IMPLICATIONS OF THE CORONA CRISIS REGARDING PRIVATE AND PROFESSIONAL DIGITAL MEDIA USE OF PRE-SERVICE TEACHERS	7319
<i>H. Höfer-Lück, M. Delere, T. Vogel</i>	
PERSONAL COMPETENCIES AS RESOURCE OF ACADEMIC MOBILITY OF STUDENTS (CASES OF LATVIA AND RUSSIA)	7328
<i>S. Ignatjeva, L. Fedina, Z. Bruk, I. Patrusheva</i>	
THE ROLE OF ICT IN MATURE AGE STUDENTS' DISTANT EDUCATION	7337
<i>P. Andres, D. Dobrovska, D. Vaněček</i>	
SOCIAL CONTEXT OF YOUNG READERS IN INTERNATIONAL COMPARISON	7343
<i>S. Babiakova, B. Kasáčová</i>	
ON-LINE+OFF-LINE HERITAGE CONSERVATION/RESTORATION PROGRAMME FOR HIGHER AND FURTHER EDUCATION – «FACES OF RUSSIA» IN ITALY	7352
<i>L. Devel, E. Volkova, A. Timashkov</i>	
THE COVID 19 PANDEMIC - A CHALLENGE FOR MILITARY EDUCATION. THE E-LEARNING SOLUTION BETWEEN NECESSITY AND EFFICIENCY	7361
<i>N.T. Lehaci, D. Roman, D.E. Tutuianu</i>	
THE WORKFLOW CONCEPT IN EDUCATION FOR SOCIETAL SECURITY IN THE CONTEXT OF A MAJOR CRISIS	7371
<i>N.T. Lehaci, D. Roman, D.E. Tutuianu</i>	
THE POINT OF VIEW OF TEACHERS AND STUDENTS IN SECONDARY EDUCATION ON THE PROBLEMS AFFECTING THE CLASSROOM CLIMATE	7380
<i>D. Gavilán-Martín, G. Merma-Molina, M. Urrea-Solano, L.A. Sauleda Martínez</i>	
LEARNING TO LEARN WITH CONCEPT MAPS: A DIDACTIC APPLICATION WITH FUTURE ENGINEERS	7388
<i>L. Canós-Darós, V.E. García-Félix, C. Santandreu-Mascarell</i>	
INTERMEDIATE TESTS: A SUCCESSFUL TOOL TO MOTIVATE STUDENTS IN USING ONLINE FORMATIVE ASSESSMENTS?	7396
<i>E. Blondeel, P. Everaert, E. Opdecam</i>	
CHANGE AND CRISIS: SHIFTING DYNAMICS IN DIGITAL LEARNING	7397
<i>G. Lotrecchiano, L. Tidmore</i>	

THE PROBLEMS THAT AFFECT COEXISTENCE DEPENDING ON THE TYPE OF EDUCATIONAL CENTRE	7408
<i>G. Merma-Molina, D. Gavilán-Martín, L. Vega-Ramírez, R. Martínez-Roig</i>	
TARGETED COMMUNICATION AT UNIVERSITY INSTITUTES: AN EMPIRICAL STUDY ON HOW TO DESIGN INFORMATION OFFERS IN AN ATTRACTIVE WAY FOR STUDENTS	7416
<i>V. Koch, D. Enzensberger, C. Mustata, B.M. Zunk</i>	
FAVOURABLE METHODOLOGIES FOR EDUCATIONAL INTERVENTION WITH STUDENTS WITH AUTISM SPECTRUM DISORDER	7426
<i>A. Gilabert Cerdá, E. García Albaladejo, A. Lledó Carreres, G. Lorenzo Lledó, E. Pérez Vázquez, A. Lorenzo Lledó</i>	
SUPERVISING DESIGN STUDIOS WITH THE TEACHER, COUNSELOR, CRITIC (T2C) FRAMEWORK	7434
<i>D. Knowlton</i>	
NEWTON'S LAWS OF MOTION: ANALYSIS OF A COMPLETE VIRTUAL EXPERIMENT WITH INTERACTIVE MATERIAL	7442
<i>N. Machado, P.S. Carvalho</i>	
ZONES OF INTEREST IN NEW AND OLD SHOPPING MALLS ANALYZED THROUGH COGNITIVE MAPS WITH STUDENTS AS CO-INQUIRERS. THE ATRIUM AS A RENEWAL SOLUTION FOR MALLS	7448
<i>M. García-Broch Martín, I. Asensio Andrés, J. Gual Ortí</i>	
TEACHERS' PERCEPTION OF THE LEADERSHIP OF FEMALE ISLAMIC BASIC SCHOOL HEADS IN THE WA DISTRICT OF THE UPPER WEST REGION OF GHANA: LESSONS FOR ADULT TOLERANCE IN LEARNING COMMUNITIES	7456
<i>F. Yengéh, E. Pajibo, A. Agordah</i>	
HUAWEI ENSP ENVIRONMENT FOR E-LEARNING OF CORPORATE NETWORK CONFIGURATION AND MAINTENANCE	7464
<i>A. Sierszen</i>	
INCLUSIVE CHEMISTRY LABORATORY PRACTICES WITH NO BARRIERS FOR BLIND AND VISUALLY IMPAIRED STUDENTS	7471
<i>A. Herrero, S. Palmero, T. Osorio, J. Muñoz</i>	
ACADEMIC LITERACY IN ENGINEERING STUDENTS: FORMULATION OF AN INSTRUMENT TO ASSESS READING COMPREHENSION AND METACOGNITIVE STRATEGIES	7481
<i>J.F. Calderón Maureira, A. Puente Ferreras, M. Mendoza-Lira</i>	
DIAGNOSIS AND INTERVENTION OF UNIVERSITY ORIENTATION NEEDS: AN EXPERIENCE OF EDUCATIONAL INNOVATION OF CHALLENGE - BASED LEARNING	7486
<i>M.E. Aguirre-Burneo</i>	
TEACHING POSTGRADUATE TO OVERCOME DIFFICULTIES IN TRANSLATION SCIENTIFIC ARTICLES	7495
<i>G. Fassakhova, R. Gataullina, R. Mukhametzyanova, L. Islamova, R. Badrieva, L. Chumarova, A. Yarkhamova</i>	
USAGE OF FOLKLORE (MYTHS) IN FOREIGN LANGUAGE TEACHING	7499
<i>G. Fassakhova, L. Chumarova, R. Gataullina, A. Yarkhamova, R. Mukhametzyanova, L. Islamova, S. Shvetsova</i>	
SOME ISSUES OF MINORITY EDUCATION (EXAMPLES FROM BULGARIA)	7504
<i>B. Buzhashka, V. Dobreva</i>	
SYNCHRONOUS VS. ASYNCHRONOUS DISTANCE EDUCATION DURING A WORLDWIDE EPIDEMIC	7510
<i>A.M. Mutawa</i>	
THE NEW INTERACTIVE ANCIENT WORLD OF AQUAE CALIDAE	7516
<i>D. Paneva-Marinova, L. Zlatkov, L. Pavlova, D. Luchev, R. Pavlov</i>	
MOBARTECH, AN INFORMAL EDUCATION PROJECT FOR BRINGING PEOPLE CLOSER TO CULTURAL HERITAGE	7521
<i>F. Zuccoli</i>	
REFLECTIVE LEADERSHIP AS A FACTOR EMPOWERING EMPLOYEES TO LEARN IN THE ORGANIZATION	7526
<i>I. Dargužienė, R. Bubnys</i>	
TEACHING SOFT SKILLS THROUGH EXPERIENTIAL COURSES DURING THE COVID-19 SANITARY EMERGENCY	7535
<i>L. Sbattella</i>	

TEACHER LEADERSHIP PERCEPTIONS IN A K-12 SCHOOL IN THE UNITED ARAB EMIRATES <i>Z. Hojeij</i>	7546
DIDACTIC APPROACH OF MUSIC INTEGRATION IN PRE-SCHOOL CHILDREN'S DAILY LEARNING ACTIVITIES: LIMITATION OF THEMES AND USE OF METHODS <i>R. Bilbokaitė, I. Bilbokaitė-Skiauterienė, M. Kravale-Pauliņa, V. Peskur</i>	7547
PROGRESS REPORT OF AN ONGOING PROJECT ON TEACHING NON-EUCLIDEAN GEOMETRIES AT HIGH SCHOOL <i>A. Cardinali, S. Benvenuti</i>	7555
PROCESS ORIENTED GUIDED INQUIRY LEARNING (POGIL) AS A GRUPAL LEARNING STRATEGY IN SCIENCE SUBJECTS <i>F. Montilla, D. Salinas-Torres, M. Navlani-García, J. Chaparro-Garnica, B. Martínez-Sánchez, J.X. Flores-Lasluisa</i>	7565
REFLEXIVE PHOTOGRAPHY AS A TOOL FOR EXPLORING STUDENTS' PERCEPTIONS ABOUT THE VALUE OF A TOURISM DESTINATION <i>A.I. Rodrigues, M. Gallarza</i>	7571
LAB-ON-A-SCREEN: GAMIFICATION OF INORGANIC CHEMISTRY EXPERIMENTS <i>M. Navlani-García, D. Salinas-Torres, A. Berenguer-Murcia, J. Fernández-Catalá, J. Quilez-Bermejo, E. Vilaplana-Ortego, A. Vallés-Botella, O. Cornejo-Navarro, I. Martínez-Mira, R. Torregrosa-Maciá, M. Molina-Sabio, G. Alemany-Molina</i>	7582
PERSONAL RESPONSES SYSTEMS AND ACTIVE LEARNING IN BIOLOGY: TEACHING EPIGENETICS WITH A SANDWICH-BASED MODEL <i>G. Katsioudi, E. Kostareli</i>	7587
USE OF KAHOOT IN E-LEARNING OF PHYSICS CONTENTS: A CASE STUDY DURING COVID-19 <i>C. Costa, A. Soares, P. Catarino</i>	7588
FROM PHYSICAL TO VIRTUAL: A CASE STUDY ON TEACHING NANOTECHNOLOGIES AND FUNCTIONAL MATERIALS FOR DESIGN WITH SMART LESSONS <i>F. Papile, A. Marinelli, B. Del Curto</i>	7594
STUDENTS' PERCEPTIONS OF BLENDED LEARNING IN FOREIGN LANGUAGE LEARNING: A CASE STUDY <i>E. Bech, J.F. Ghesquière, H. Mustafa, P. Lorenz</i>	7603
A METHODOLOGY TO ASSESS LEARNING PATTERNS IN ONLINE COURSES MEDIATED BY AN LMS <i>A. Figueira</i>	7604
CONTINUOUS ADAPTATION OF THE TEACHING AND EVALUATION PROCESS AT THE STUDENTS' REQUEST <i>L.G. Popescu, G.M. Moraru</i>	7609
GOING MOBILE: A PROPOSAL FOR TEACHERS' TRAINING <i>I. Noguera</i>	7614
THE IMPORTANCE OF MODELLING TEACHING TOOLS IN THE EDUCATIONAL PROCESS <i>L.G. Popescu, G.M. Moraru</i>	7624
LEARNING OF LABORATORY SKILLS VIA AUGMENTED REALITY - CASE STUDY IN PHARMACY <i>K. Kapp, M. Sivén, P. Laurén, M. Aejmelaeus, S. Virtanen, N. Katajauori, I. Södervik</i>	7631
DESIGN AND EVALUATION OF TWO MOBILE COMPUTER-ASSISTED PRONUNCIATION TRAINING TOOLS TO FAVOR AUTONOMOUS PRONUNCIATION TRAINING OF ENGLISH AS A FOREIGN LANGUAGE <i>C. Tejedor-Garcia, V. Cardeñoso-Payo, D. Escudero-Mancebo</i>	7639
THE IMPACT OF AI IN TEACHING EFL WITH FLIPPED LEARNING <i>H. Obari, S. Lambacher, H. Kikuchi</i>	7647
REALISTIC LEARNING BASED ON COORDINATED TEACHING IN HIGHER EDUCATION. AN EXAMPLE AT MASTER'S DEGREE IN TEACHING TRAINING <i>M. Vives, M. Escoda, E. Ribas, M.M. Garau</i>	7653
APPLICATION OF EDUCATIONAL MATERIAL IN SAFETY FIELDS <i>L. Brumarova, J. Pokorný, S. Krocova</i>	7658
EDUCATION OF COMMUNITY AND EVALUATION OF EDUCATION IN THE CZECH REPUBLIC <i>L. Brumarova, J. Brumar, E. Polcarova</i>	7665

OPTIMIZATION OF DYNAMIC MATHEMATICAL APPLETS FOR PUPILS OF YOUNGER SCHOOL AGE <i>E. Partová, A. Poliaková, J. Záhorec, K. Žilková</i>	7672
"COEXISTENCE AND CONFLICT MANAGEMENT", FROM UNIVERSITY THEORY TO PRACTICE <i>M. Vives</i>	7681
REINVENTING THE CLASSROOM: TOWARDS A MODEL FOR THE DESIGN OF OPEN EDUCATIONAL RESOURCES ACROSS THE CURRICULUM <i>M.A. Fernandez Cifuentes, G. Wilson Aranguren</i>	7685
MINECRAFT: EDUCATION EDITION AS A GAME-BASED LEARNING IN SLOVAKIA <i>J. Sajben, N. Klimova, G. Lovaszova</i>	7686
EDUCATORS' EXPERIENCES WITH THE USE OF COMPARISON-BASED FEEDBACK TO SUPPORT SELF-REGULATED STUDENT LEARNING <i>M. Fellenz, M. Brady, M. MacMahon</i>	7694
BLENDED LEARNING: LEARNING SOLUTION IN THE INDUSTRY 4.0 <i>Y. Helsa, A.K. Kenedi, Y. Ariani</i>	7702
TWITTER FOR RESEARCH-INFORMED TEACHING ON IMMUNITY & EPIGENETICS: LESSONS FROM A POSTGRADUATE CLASS <i>E. Kostareli</i>	7708
PRACTICALITY OF DIGITAL MATHEMATICS LEARNING MODELS FOR ELEMENTARY SCHOOLS <i>Y. Ariani, Y. Helsa, A.K. Kenedi</i>	7709
RAISING STUDENTS' INTEREST IN TECHNOLOGY RELATED CAREERS THROUGH DESIGN-BASED SCIENCE LEARNING APPROACH <i>T. Vaino, K. Vaino, M. Rannikmäe</i>	7715
PROTECTIVE FACTORS AS RESILIENCE PREDICTORS <i>L. Lackova, D. Hanuš, A. Ramírez García, T. Kímplova</i>	7722
EMOTIONAL LABOUR: A PSYCHOANALYTIC CONTRIBUTION TO TRAINING AND PROFESSIONAL DEVELOPMENT OF TEACHERS <i>L. Mortari, R. Bombieri</i>	7728
ANALYSING THE CONTEXTS' NEEDS IN ORDER TO OPTIMIZE THE PRE-SERVICE TEACHERS' TRAINING PROGRAM: A RESEARCH CONDUCTED BY THE UNIVERSITY OF VERONA <i>R. Silva, M. Ballarini</i>	7735
GENDER PERCEPTION ABOUT FAKE NEWS AND DISINFORMATION: CASE STUDY WITH PORTUGUESE HIGHER EDUCATION STUDENTS <i>N.S. Morais, M. Cruz</i>	7746
STUDENTS' BEHAVIOURAL INTENTION TO USE MOBILE DEVICE FOR LEARNING AT HOME IN TIMES OF COVID-19 <i>G. Masilo, S. Simelane-Mnisi, A. Mji, I. Mokgobu</i>	7754
FAKE NEWS IDENTIFICATION: ARE FUTURE COMMUNICATION PROFESSIONALS PREPARED? <i>M. Cruz, N.S. Morais</i>	7764
DOUBLE TEACHER CLASSROOM: A NEW FORM OF BALANCED DEVELOPMENT OF BASIC EDUCATION PROMOTED BY "INTERNET PLUS" INTELLECTUAL RESOURCES SHARING <i>P. Ma, X. He, X. He, X. Zhang, Y. Fan, H. Chen</i>	7772
DESIGN INQUIRY LEARNING - USING DESIGN THINKING METHODS AS SCAFFOLDING IN PROBLEM-BASED LEARNING <i>S. Lundmark, M. Jonsson</i>	7779
DESIGN THINKING FOR SUSTAINABILITY EDUCATION IN K12 <i>H. Tsalapatas, O. Heidmann, C. Katsimentes, S. Panagiotopoulos, C. Taka</i>	7780
DEVELOPMENT OF MATERIALS SCIENCE HIGH-SCHOOL EXCELLENCE PROGRAMS AND OUTREACH ACTIVITIES BASED ON ENVIRONMENTAL APPLICATIONS OF FUNCTIONAL POLYMER FOAMS <i>S. Barroso-Solares, M.A. Rodriguez-Perez, J. Pinto</i>	7785
CRYSTALLOGRAPHIC AND SPECTROSCOPIC APPROACHES TO IMPROVE THE SOLID-STATE PHYSICS LABORATORY PRACTICES PROGRAM <i>S. Barroso-Solares, D. Cuadra, M.A. Rodriguez-Perez, J. Pinto</i>	7793
ARE SOFT SKILLS BEING ACHIEVED IN THE SPANISH UNIVERSITIES? <i>D. Díaz-Gutiérrez, R. Pérez-Fernández, J.E. Pérez-Martínez, L. Martínez-Muneta, R. D'Amore-Domenech, A. Villalba-Herreros, T.J. Leo</i>	7802

DRUG LEARNING THROUGH THE SPACED REPETITION SYSTEM USING "ANKI" AND "MNEMOSYNE" SOFTWARE IN NURSING STUDENTS	7809
<i>A.J. Marín-Paz, V. Casado-Arjona</i>	
EDUCATING FUTURE OCCUPATIONAL HEALTH PRACTITIONERS FOR EXCELLENT STRESS MANAGEMENT ACROSS EUROPE	7815
<i>J.P. Czakert, J.A.M. Reif, R. Berger</i>	
IMPROVING DECISION-MAKING IN NURSING STUDENTS THROUGH INTERACTIVE FICTION USING "TWINE" SOFTWARE	7819
<i>A.J. Marín-Paz, J.J. Cobacho-de-Alba, M. Sanlés-Pérez, R. González-Rodríguez, A.M. Sainz-Otero</i>	
TEACHERS' PERCEPTIONS TOWARDS THE PEDAGOGICAL USE OF INTERACTIVE WHITEBOARD IN SOUTH AFRICAN HIGH SCHOOLS	7825
<i>M. Mokoena, S. Simelane-Mnisi, A. Mji</i>	
NEW TRAINING REQUIREMENTS FOR MANAGERS AND ECONOMISTS IN THE TWENTY-FIRST CENTURY: "HAPPINESS ECONOMY" VS "GROWTH ECONOMY"	7834
<i>N. Levkin</i>	
TO PLAY OR NOT TO PLAY, THAT IS THE QUESTION!	7839
<i>A. Teles Vieira</i>	
"LAST SEEN RECENTLY": HOW PRIMARY SCHOOL STUDENTS USE SOCIAL NETWORKS AND INTERNET FOR COMMUNICATION	7847
<i>V. Keller, A. Gorbunova, A. Kapuza</i>	
SUSTAINABLE DEVELOPMENT GOALS AND GENERAL SKILLS INTEGRATED THROUGH GAMIFICATION IN HIGHER EDUCATION: A CASE STUDY	7853
<i>I. Guillén-Guillamón, H. Moreno-Ramón, M. Cabedo-Fabrés, M. Ferrando-Bataller, S. Calvet-Sanz, S. Ibáñez-Asensio, A. Jiménez-Belenguer</i>	
FACT CHECKING PANORAMA IN HIGHER EDUCATION	7860
<i>A. Teles Vieira</i>	
CONTINUITY OF EDUCATIONAL PROCESS THROUGH VIRTUAL KINDERGARTEN DURING COVID-19 OUTBREAK – CASE STUDY FROM CROATIA	7861
<i>I. Somolanji Tokić, A. Vukašinović</i>	
MAPPING OF TECHNOLOGICAL INNOVATION LEVEL IN PROJECTS IN A UNIVERSITY OF AREQUIPA, PERU	7871
<i>J. Sullá-Torres, J. Esquicha Tejada, K. Rosas Paredes, S. Moreno Rojas, Z. Guerra De Castillo, A. García-Carrillo</i>	
HOW ARE MOTIVATIONAL ASPECTS AND LEARNING STRATEGIES RELATED TO SATISFACTION WITH ONLINE LEARNING?	7879
<i>M. Divjak, V. Prevolnik Rupel</i>	
THE CREATION AND EVALUATION OF MATHEMATICAL APPLETS ON SYMMETRY FOR PRIMARY SCHOOL PUPILS	7886
<i>K. Žilková</i>	
USE OF ELECTRONIC EDUCATIONAL RESOURCES IN TEACHING A VARIETY OF DISCIPLINES	7894
<i>A. Vladyko, T. Rezer</i>	
TROUBLESHOOTERS FOR OBJECT-ORIENTED PROGRAMMING HOMEWORK ASSIGNMENTS	7895
<i>M. Lepp, A. Klaanberg</i>	
CONFLICTS AMONG TEACHERS. SOURCES, CAUSES AND PRINCIPAL'S ROLE	7905
<i>M. Constantinides, S. Orphanos</i>	
DIGITIZED EDUCATIONAL PREVENTIVE PROGRAM FOR CHILDREN PROTECTION: DEVELOPMENT OF THE CONTENT AND THE ROLE OF AN EDUCATOR	7913
<i>J. Pivoriene, B. Kairiene, A. Katkoniene</i>	
INTERNSHIPS FOR ENHANCING SOCIAL AND CIVIC KEY COMPETENCES FOR LIFELONG LEARNING IN TECHNICAL UNIVERSITIES: THE ERASMUS+ IN4SOC PROJECT	7921
<i>J.M. Zavaala-Pérez, A. Jiménez-Rivero, J. García-Navarro</i>	
TEACHERS' PRACTICES OF USING DIGITAL INTERACTIVE MATERIALS IN HISTORY LESSONS	7931
<i>A. Kulieva, V. Markina</i>	
SOCIAL AND CIVIC COMPETENCES FOR THE LIFELONG LEARNING OF HIGHER EDUCATION STUDENTS: ASSESSMENT OF INTERNSHIPS WITH SOCIETAL IMPACT AND SOCIAL RESPONSIBILITY	7938
<i>J.M. Zavaala-Perez, A. Jiménez-Rivero, J. García-Navarro</i>	

MODERN EDUCATIONAL APPROACHES - INTEGRATING THE NEW EDUCATIONAL PARADIGM FOR STUDENTS, PHD STUDENTS AND YOUNG SCIENTISTS SUPPORT AND REALIZATION	7947
<i>S. Denchev, D. Stoyanova, R. Yotova, S. Yordanova</i>	
INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT'S) IN THE TEACHING OF AN INTERUNIVERSITY MASTER'S DEGREE IN AGRI-FOOD	7951
<i>A. Jiménez-Cantizano, A. Amores-Arrocha, P. Sancho-Galán, V. Palacios, J.M. Gómez</i>	
LITERARY TEXTS THROUGH VISION OR REFLECTIONS ON THE SENSORY PERCEPTION OF FICTION	7956
<i>V. Nikolova, M. Simeonova</i>	
MULTIWORD COMPOSITIONAL PHRASES WITH FACULTATIVE REFERENCE AS ESSENTIAL DEVICES OF TEXT COHERENCE	7962
<i>K. Rysová</i>	
MAKING 4.0: DEVELOPING AN OFFICIAL MASTER DEGREE FOR ADAPTING THE CURRICULA OF FUTURE WORKERS AND MANAGERS OF WOOD AND FURNITURE SECTOR TO THE SKILLS REQUIRED BY THE INDUSTRY 4.0	7968
<i>J.L. Romero-Gázquez, G. Cañavate-Cruzado, J.J. Ortega-Gras, J. Garrido-Lova, M.V. Bueno-Delgado, M.V. Gómez-Gómez, M. Zbiac, J. Ratnasingam, S.Z. Abidin, R. Hashim, S. Zakaria, M.N. Zamri Mat Amin</i>	
TEACHING SPANISH AS A LANGUAGE FOR SOCIAL INCLUSION IN AN ADULT MIGRANT TRAINING CENTER	7978
<i>C. Orna-Montesinos</i>	
MLEARNING IN PRIMARY EDUCATION: AN ONLINE TEACHER TRAINING PROPOSAL BASED ON MONTESSORI EDUCATION PRINCIPLES	7979
<i>J. Azevedo-Gomes, A. Sartor Harada</i>	
SIGNIFICANT ATTENDANCE IN THE DEVELOPMENT OF THE EUROPEAN HIGHER EDUCATION AREA AT SPANISH UNIVERSITIES	7984
<i>E. Raya Diez, F. Navaridas Nalda</i>	
ICT SKILLS FOR TEACHER EDUCATION	7992
<i>A. Sartor Harada, J. Azevedo-Gomes</i>	
CONNECT LEARNING WITH REALITY: USE OF SOCIAL NETWORKS IN THE UNIVERSITY CLASSROOM	7998
<i>E. Raya Diez, S. Montenegro Leza, A.B. Cuesta Ruiz-Clavijo</i>	
REFLECTIVE LEARNING, TEACHER TRAINING, AND VIRTUAL ENVIRONMENTS: PRACTICAL CONTRIBUTIONS	8006
<i>A. Sartor Harada, J. Azevedo-Gomes</i>	
MLEARNING FOR HERITAGE SPEAKERS: AN APP DESIGN PROPOSAL BASED ON CONSTRUCTIVISM	8015
<i>J. Azevedo-Gomes, A. Sartor Harada</i>	
IMPROVING THE STUDENTS INTEREST AND INVOLVEMENT IN THEORETICAL SUBJECTS USING SELF-ASSESSMENT TECHNIQUES	8020
<i>A. Amores-Arrocha, P. Sancho-Galán, V. Palacios, A. Jiménez-Cantizano</i>	
TEACHERS' OPINIONS REGARDING THE INTEGRATION OF STEM-BASED ACTIVITIES IN PRIMARY EDUCATION	8027
<i>I.A. Babos, L. Ciascai</i>	
LEARNING INTO CORONA VIRUS PEDAGOGY: WE SHOULD NEVER GO BACK	8032
<i>D. Knowlton</i>	
INVESTIGATION OF TEACHER CANDIDATES' PERCEPTIONS FOR THE PRESENT AND THE FUTURE OF THE ENVIRONMENT	8038
<i>Ş. Kösem</i>	
CHILDHOOD ADVERSITY	8039
<i>S. Laurian Fitzgerald, C. Fitzgerald</i>	
DIGITAL TRANSFORMATION CHALLENGES AND OPPORTUNITIES IN UNIVERSITY EDUCATION	8048
<i>D. Laitkep, K. Repkova Stofkova</i>	
STAKEHOLDER PERSPECTIVES ON A EUROPEAN UNION SUPPORTED PROJECT FOR APPLIED GAME DESIGN	8056
<i>P. Cowley, P. Hollins, D. Hyams-Ssekasi</i>	
PUBERTY FROM THE PERSPECTIVE OF ABSENCE OF KNOWLEDGE IN PRIMARY SCHOOL PUPILS	8061
<i>M. Rašková, D. Provázková Stolinská, M. Bartošová</i>	

EXPLORING TEACHERS' VIEWS ON THE USE OF INQUIRY-BASED APPROACHES IN TEACHING	8065
<i>V.G. Turşan, L. Ciascai</i>	
STUDENT SATISFACTION SURVEY WITH E-LEARNING FORM OF EDUCATION IN UNIVERSITY ENVIRONMENT	8072
<i>D. Laitkep, K. Repkova Stofkova, J. Stofkova</i>	
CUSTOMER PROFILE IDENTIFICATION IN IT SERVICE DEVELOPMENT	8077
<i>R. Mekovec, K. Pažur Aničić</i>	
HOW STUDENTS' PERCEIVE VALUE OF THE HIGHER EDUCATION EXPERIENCE DURING THE CORONAVIRUS 19 CRISIS?	8083
<i>M. Gallarza, A.I. Rodrigues, R. Sanchez-Fernandez</i>	
TEACHING TECHNOLOGICAL DESIGN: ENHANCING STRATEGIES AND APPROACH	8094
<i>A. Violano, A. Bosco, M. Cannaviello, R. Franchino, C. Frettoloso, F. Muzzillo, S. Rinaldi</i>	
ACTIVITY THEORY AS A TOOL FOR MAKING SENSE OF ACADEMIC WORK ENVIRONMENTS	8104
<i>P. Cowley</i>	
MAKE LEARNING FUN	8111
<i>S. Laurian Fitzgerald, C. Fitzgerald</i>	
PHRASEOLOGY IN THE ASPECT OF TEACHING THE RUSSIAN LANGUAGE	8120
<i>O. Raina</i>	
MODERNIZING THE VOCATIONAL EDUCATIONAL TRAINING IN THE FIELD SOCIAL SCIENCES AND HUMANITIES TOWARDS THE KEY ENABLING TECHNOLOGIES IN THE DIGITAL TRANSFORMATION	8125
<i>G. Cañavate-Cruzado, F.J. Moreno-Muro, M.V. Bueno-Delgado</i>	
CRIME PREVENTION EDUCATION AS AN EFFECTIVE TOOL FOR REDUCING ANTI-SOCIAL ACTIVITY	8133
<i>V. Soltes, Z. Stofkova</i>	
MANAGEMENT TRAINING FOR SPECIFIC CRISIS SITUATIONS	8141
<i>J. Kubas, Z. Stofkova</i>	
CORONAVIRUS AGAINST EDUCATION: E-LEARNING TO THE RESCUE IN THE CASE OF GREECE	8148
<i>A. Giannakouloupoulos, L. Limniati, N. Konstantinou</i>	
THE ROLE OF LEADERSHIP IN CULTURAL HERITAGE EDUCATION USING NEW INFORMATION AND COMMUNICATION TECHNOLOGIES	8155
<i>M. Modeva, S. Modev</i>	
SUSTAINABLE FASHION DESIGN: PRODUCT FROM PROCESS	8164
<i>A. Violano, A. Cirafici</i>	
COMPUTATIONAL THINKING AND PROBLEM SOLVING IN PROGRAMMING INTERACTIVE COMPONENTS AND CREATING ANIMATED PLOTS BY USING AN ACE IN STEM	8173
<i>C. Fissore, A. Genovese, M. Marchisio, M. Pulvirenti</i>	
ON THE CREDIBILITY OF SOCIAL MEDIA INFLUENCERS AS TUTORS: THE CASE OF NUTRITION IN YOUTUBE AND INSTAGRAM	8184
<i>A. Giannakouloupoulos, L. Limniati, N. Konstantinou</i>	
COMPARISON AND ANALYSIS OF OWN REMOTE LEARNING EXPERIENCES IN A SUPERVISED AND NON-SUPERVISED ENVIRONMENT	8192
<i>A. Sierszen</i>	
JUMPING THE GAP BETWEEN COLLABORATIVE READING OF FOLK TALES AND ICTS IN THE EFL CLASSROOM: A DIDACTIC PROPOSAL FOR PRIMARY EDUCATION	8199
<i>D. Guzman Medrano, M. García Lledó</i>	
THE PECULIARITIES OF A UNIVERSITY LEARNING ENVIRONMENT IN A MIXED GROUP OF INTERNATIONAL AND LOCAL STUDENTS	8208
<i>D. Gudaityte, E. Butrime, S. Morkeviciene, V. Tuomaitte</i>	
ADAPTING A GALLERY WALK TO DIGITAL MODE: AN EXPERIENCE WITH PRESERVICE TEACHERS IN TIMES OF COVID-19	8218
<i>R. Tomás Ferreira</i>	
EDUCATE TO INNOVATE ORGANIZATIONS TOWARDS SOCIAL, ENVIRONMENTAL AND ECONOMIC RESPONSIBILITY: A NEW POST-GRADUATE TRAINING PROPOSAL	8228
<i>M. Parente</i>	

EXPLORING PEDAGOGICAL CONTENT KNOWLEDGE (PCK) AND CONTENT KNOWLEDGE (CK) OF CHINESE AS A FOREIGN LANGUAGE (CFL) TEACHERS IN TEACHING CHINESE PRONUNCIATION <i>L. Li</i>	8236
EVALUATING THE IMPACT OF DIFFERENT PEDAGOGICAL AND TECHNOLOGICAL RESOURCES TO TRAIN TRANSFERABLE SKILLS IN THE AREA OF CHEMICAL ENGINEERING <i>A. Jiménez, J.D. Badia, L. Borrás, J.P. Cerisuelo, A. Cháfer, O. Gil-Castell, J.B. Gimenez, M.D. Hernáiz, M. Izquierdo, N. Martí, J. Ribes, M.V. Ruano, R. Sánchez-Tovar, R. Sanchis, P. San Valero, Á. Robles</i>	8240
E-LEARNING METHODS FOR UNDERGRADUATE AND POSTGRADUATE COURSES IN DESIGN DURING THE COVID-19 EMERGENCY <i>M. Parente</i>	8250
DRAG-AND-DROP E-LEARNING SOLUTIONS FOR TRAINING BUSINESS ADMINISTRATION TO ENGINEERS <i>M.A. Rafart Serra, A. Bikfalvi, J. Poch Garcia, J. Soler Masó</i>	8258
COORDINATES OF THE ROMANIAN EDUCATION SYSTEM IN THE RURAL ENVIRONMENT <i>C. Țurcanu (Dimitriu), A.S. Tecău, C.P. Constantin</i>	8267
EFFECTIVE CONFLICT MANAGEMENT: THE ROLE OF PRINCIPALS <i>M. Constantinides, S. Orphanos</i>	8277
DEALING WITH CONTROVERSIAL TOPICS AND PEACEBUILDING IN THE CLASSROOM: THE CASE OF DEMOCRATIC DIALOGUE EXAMINED BY THE PRINCIPLES OF CONFLICT RESOLUTION PROGRAMS IN EDUCATION <i>M.S. Göregen, E. Cornelissen</i>	8283
ANALYSIS AND DEVELOPMENT OF DIGITAL SKILLS AT SCHOOL: OBSERVATION AND DIDACTIC PLANNING <i>L. Kazantseva, P. Nicolini</i>	8293
USE OF EXPERIENTIAL LEARNING IN KINDERGARTEN <i>V. Šindelářová, P. Šimbartl</i>	8300
ANALYSIS OF THE CREATIVE INDUSTRY IN THE DEVELOPMENT OF EMPLOYABILITY, DURING THE 2016 CRISIS IN ECUADOR <i>D. Jordán, M. Pilamunga-Poveda, A.D. Jordán</i>	8305
ORCHESTRATING TEACHERS FOR INNOVATION: A COMMUNITY APPROACH FOR INTEGRATING HEALTH AND SAFETY IN SCHOOLS <i>A. Bikfalvi, G. Gimenez, M. González-Carrasco, N. Mancebo, E. Villar</i>	8310
EMPIRICAL STUDY ON THE IMAGE OF THE RURAL SCHOOL SYSTEM <i>C. Țurcanu (Dimitriu), C.P. Constantin, A.S. Tecău</i>	8320
BARRIERS IN ADULT EDUCATION <i>L. Madlenakova, M. Majercakova</i>	8328
NAVIGATIONAL CHARACTERISTICS OF DIGITAL TEXTS AS A FACTOR OF THE INFORMATION SEARCH EFFICIENCY <i>A. Kovalev, T. Ledneva</i>	8337
SYSTEMATIZING INTERNATIONALIZATION CRITERIA OF HIGHER EDUCATION INSTITUTIONS <i>T. Göritz, M.D. Nguyen, T. Tinis, A. Clauss</i>	8342
DESIGNING CASES TO FOSTER VIRTUAL MOBILITY IN INTERNATIONAL COLLABORATIVE GROUP WORK <i>M. Altmann, A. Clauss</i>	8350
ENGINEERING STUDENTS' AWARENESS OF THEIR PRESENT AND FUTURE PROFESSIONAL EXPERTISES <i>C. Pinto, L. Babo, J. Mendonça</i>	8360
EDUCATIONAL SERVICES, TOOLS, AND INFRASTRUCTURE FOR REMOTE DELIVERY OF SOFTWARE DEVELOPMENT COURSES IN WEB AND MOBILE COMPUTING <i>B. Mihaljević, M. Žagar, A. Radovan</i>	8370
LEARNING BY DOING: AN EXPERIENCE WITH ACCOUNTING STUDENTS <i>R. Bertuzi, P. Silva</i>	8381
EXPERIENCES RELATED TO USING ONLINE COMMUNICATION TOOLS FOR DISTANCE LEARNING <i>A. Radovan, B. Mihaljević, M. Žagar</i>	8386

CAREER DECISION-MAKING LEARNING ACTIVITIES IN STEM: AN INTEGRATED CAPSULE MODEL EARMARKED FOR HIGHER AND VET EDUCATIONS	8390
<i>N. Chelin, M.M. Socias Camacho, S. Rouvrais, G. Matthíasdóttir</i>	
ELDERLY PEOPLE, COVID-19 AND TECHNOLOGIES: A QUALITATIVE RESEARCH	8401
<i>E. Cirilli, P. Nicolini</i>	
HEALTH PROFESSIONALS' PREPAREDNESS ABOUT THE GLOBAL COVID-19 PANDEMIC	8411
<i>P. Trendafilova, G. Tchaneva</i>	
MODELLING THE SOLAR SYSTEM: INNOVATIVE RESOURCES IN A DIGITAL ERA	8417
<i>M.C. Costa, P. Santos, A. Manso, H. Simões, V. Marçal</i>	
PANELS GOING INTERNATIONAL WITHOUT LEAVING THE CAMPUS	8425
<i>P. Lane, R. Lafferty</i>	
MOTIVATING ENGINEERING STUDENTS TO LEARN MATH: HINTS FROM A CALCULUS COURSE	8433
<i>L. Babo, C. Pinto, J. Mendonça, M. Zannin</i>	
USE OF WIRES AND BEADS FOR THE DEVELOPMENT AND DETECTION OF FINE MOTOR SKILLS OF CHILDREN IN KINDERGARTEN	8441
<i>A. Nekolová, P. Šimbartl</i>	
PROBLEM SOLVING IN THE DEVELOPMENT OF CRITICAL THINKING IN PRIMARY SCHOOL	8445
<i>H. Campos, C. P. Campos</i>	
SEA MUSEUMS AS SOCIOTECHNICAL EDUTAINMENT ARTEFACTS	8454
<i>R. Grácio, N. Cintra Torres, I. Duarte, C. Quico, E. Sarmento, R. Muchacho</i>	
STORIES WITH MATHEMATICS: A TEACHING EXPERIENCE IN PRIMARY SCHOOL	8461
<i>H. Campos, A.C. Pires</i>	
NEW CONTRIBUTIONS TO IMPROVE PERFORMANCE ISSUES RELATED TO A MOBILE AUGMENTED REALITY LOCATION-BASED GAME	8467
<i>A. Manso, M.C. Costa, P. Santos, J. Patrício, F. Monteiro, B. Alegria, G. Rocha</i>	
COOKING TO LEARN: A DIGITAL EDUCATIONAL RESOURCE FOR THE PROMOTION OF CURRICULAR INTEGRATION IN PRIMARY SCHOOL	8468
<i>A. Cardoso, R. Rodrigues, J. Souza, N. Palma</i>	
TECHNOLOGY INTEGRATION AND STUDENT TEACHERS' CONCEPTIONS ABOUT THE ROLE OF DIGITAL RESOURCES IN THE CHILEAN PRIMARY CLASSROOMS: ARE THEY TRAINED TO SHIFT TO NEW TEACHING PRACTICES?	8475
<i>A. Canales-Tapia</i>	
EDUCATION DOCTORATE GRADUATES' PERCEPTIONS OF A SCHOLARLY PRACTITIONER DOCTORAL PROGRAM PREPARING THEM TO BE PROBLEM SOLVERS AND CHANGE-AGENTS	8485
<i>J. McAtavey</i>	
USING WEB-BASED MUSIC COMPOSITION APPLICATIONS TO ENHANCE NON-SPECIALIST PRIMARY TEACHERS' SELF-EFFICACY IN MAKING AND TEACHING MUSIC	8489
<i>J. Harris, C. Carroll</i>	
STOP: THE NEW AND MODERN TEACHING AND LEARNING PROCESS OF ACCOUNTING	8496
<i>J. Legčević, R. Abreu, A.I. Ventura</i>	
INCLUSION OF COLLABORATIVE TOOLS SUCH AS DIGITAL COMPETENCE IN UNIVERSITY STUDENTS	8501
<i>F. Leyva Picasso, R. Cordoba Del Valle, M. Rodríguez León, A. Figueroa Leal</i>	
SUCCESSES AND CHALLENGES OF TECHNOLOGY-ENHANCED PERSONALIZED LEARNING	8505
<i>J. Conan Simpson</i>	
EDUCATIONAL TOOL BASED ON AUGMENTED REALITY TO SUPPORT THE TEACHING OF ELECTRIC FIELDS	8510
<i>D. Rivera, D. Quiroga, H. Marín</i>	
INDUSTRY 5.0 EXPECTATIONS OF ENGINEERING CRITICAL THINKING	8518
<i>J. Mendonça, C. Pinto, L. Babo</i>	
THE FUTURE OF UNIVERSITY QUALIFICATIONS	8530
<i>S. Marshall</i>	
UNBUNDLING THE LEARNING MANAGEMENT SYSTEM	8540
<i>S. Marshall</i>	

INSTITUTIONAL DIGITAL INITIATIVES AND FACULTY ENGAGEMENT IN SELECTED UNIVERSITIES IN NIGERIA	8546
<i>H. Falola, O. Salau, A. Osibanjo, O. Ogueyungbo, T. Atolagbe</i>	
ELECTRICFIELD VR: A VIRTUAL REALITY APPLICATION TO SUPPORT THE TEACHING OF ELECTRIC CHARGES	8554
<i>J. Camargo Bernal, D.M. Rivera Pinzón, N. Montero Gómez</i>	
NURSES' EDUCATION OF PEOPLE WITH TYPE 2 DIABETES AT THE GENERAL HOSPITAL OF NICOSIA	8561
<i>P. Trendafilova, F. Nouemssi</i>	
METADESIGN ARCHITECTURE WORKING STUDIO ACTIVITIES. AN EDUCATIONAL EXPERIENCE BETWEEN FACE-TO-FACE TEACHING AND ONLINE TEACHING	8571
<i>F. Maroldi, M. Lunati, G. Vitale</i>	
TEACHERS' PROFESSIONAL DEVELOPMENT: MAIN FACTORS FOSTERING PROGRESS OF EDUCATION	8580
<i>R. Bilbokaitė, I. Šedekytė-Lagunavičienė, J. Tumlovskaja, I. Bilbokaitė-Skiauterienė</i>	
INTERACTIVE BOARD DESIGN TO MAKE HOMEWORK MORE FUN (5 TO 8 YEARS)	8588
<i>N.M. Elgeneady, R.S. Basalama</i>	
GAMES AND M-LEARNING IN PORTUGAL: EXPLORATORY META-ANALYSIS OF OPEN ACCESS STUDIES BETWEEN 2012 AND 2018	8594
<i>T. Cardoso, M. Ferreira Marques</i>	
WIKIS, EDUCATION & RESEARCH: THE INTERNATIONAL ACADEMIC NETWORK WEIWER®	8602
<i>T. Cardoso, F. Pestana, J. Pinto</i>	
THE ISSUE OF PERSISTENT NEGATIVE CONSEQUENCES OF FIXED MOUTH BREATHING AFTER PARTIAL OR COMPLETE REMOVAL OF THE ADENOIDS ON THE DEVELOPMENT OF THE PRESCHOOL CHILD IN THE CONTEXT OF EDUCATION	8609
<i>E. Šlesingrová, K. Vitásková</i>	
DIVERSITY AND INCLUSIVE TEACHING	8617
<i>C. Ruggieri-Joseph</i>	
COVID-19 PANDEMIC: OPPORTUNITIES FOR ONLINE LEARNING TO UNBLOCK THE MINDS OF STUDENTS DURING LOCKDOWN PERIOD	8621
<i>S. Simelane-Mnisi, A. Mji</i>	
STUDY HABITS IN STUDENTS OF A NURSING PROGRAM	8630
<i>R.E. Perez-Siguas, H.H. Matta-Solis, E.P. Matta-Solis</i>	
ATTITUDES TOWARD RESEARCH IN NURSING STUDENTS OF A PRIVATE UNIVERSITY OF LIMA	8636
<i>R.E. Perez-Siguas, H.H. Matta-Solis, E.P. Matta-Solis</i>	
EMPATHY IN NURSING STUDENTS WHO INITIATE PRE-PROFESSIONAL PRACTICES IN A PRIVATE UNIVERSITY OF LIMA	8642
<i>H.H. Matta-Solis, R.E. Perez-Siguas, E.P. Matta-Solis</i>	
LEARNING STYLES IN STUDENTS WHO START STUDIES IN A NURSING PROGRAM AT A UNIVERSITY OF LIMA	8648
<i>H.H. Matta-Solis, R.E. Perez-Siguas, E.P. Matta-Solis</i>	
USING ACTIVATING TEACHING METHODS FOR IMPROVING STUDENT MOTIVATION	8653
<i>B. Micieta, V. Binasova, M. Kasajova, G. Gabajova</i>	
RESEARCH AND APPROACHES TO THE TRAINING AND EXCHANGE OF NATIONAL TRADITIONS AND LIVING CULTURAL HERITAGE	8660
<i>K. Nikolov, G. Bogdanova</i>	
DEVELOPMENT OF LEARNING ENVIRONMENT MEASUREMENT INSTRUMENT FOR ARCHITECTURAL EDUCATION: A QUANTITATIVE APPROACH	8667
<i>G. Sen, A. Adeboye, O. Alagbe</i>	
THE ROLE OF ORAL CORRECTION IN SPANISH AS A FOREIGN LANGUAGE STUDENTS' (DE)MOTIVATION	8674
<i>F. Gatón Gabriel</i>	
USE OF MONTE-CARLO METHOD IN TEACHING AT UNIVERSITY IN VARIOUS SCIENTIFIC DISCIPLINES	8678
<i>J. Rada, V. Kohout</i>	

THE POTENTIAL OF KAHOOT IN THE TEACHING AND LEARNING PROCESS IN ALGORITHMS AND COMPUTER PROGRAMMING CLASSES	8686
<i>P. Carvalho</i>	
KAHOOT! A DIDACTIC RESOURCE TO SUPPORT THE PROJECT/INTERNSHIP REPORT WRITING OF FUTURE ENGINEERS	8694
<i>P. Carvalho</i>	
A VR GAME TO IMPROVE COMMUNICATION SKILLS IN SECONDARY-SCHOOL TEACHERS	8701
<i>M. Bocos-Corredor, A. Diaz-Nieto, A. Lopez-Garcia, A. Romero-Hernandez, I. Alvarez, B. Manero</i>	
GLOBAL COMPETENCE FOR EMBRACING DIVERSITY BY THE GLOBALLY MINDED CITIZENS IN HIGHER EDUCATION	8711
<i>D. Iliško, Z. Rubene, E. Oļehnoviča, D. Medne</i>	
IT STARTS WITH A STORY! TOWARDS EXTENSIVE READING	8718
<i>M. Kepe</i>	
THE USE OF DRONES/REMOTE CONTROLLED VEHICLES IN THE EVENT OF APPEARANCE OF EMERGENCY SITUATIONS AND THE VALUE OF THE DISTANCE EDUCATION AT THESE SITUATIONS	8732
<i>L.R. Popescu</i>	
CHANGING FROM FACE TO FACE TO E-LEARNING IN EMERGENCY CONTEXTS: EXPERIENCES FROM COVID-19 2020 PANDEMIC CRISIS IN UNIVERSITY CONTEXTS IN PORTUGAL	8741
<i>F. Ramalhete, L. Pascueiro, T. Santos, I. Pedro Vicente</i>	
THE LINKS BETWEEN THE 9TH GRADE STUDENTS' ACHIEVEMENT GOALS ORIENTATIONS AND PERCEIVED SCHOOL ENVIRONMENT	8750
<i>A. Augustiniene, B. Simonaitiene, R. Erentaite, R. Vosylis, S. Raiziene</i>	
CHOVR: A VIRTUAL REALITY TOOL FOR CHORAL CONDUCTING TRAINING	8751
<i>A. Pinar-Adán, E. Romero-Guantes, C. Villaescusa-Sifuentes, A. Romero-Hernandez, B. Manero</i>	
THE ROLE OF DIGITAL TECHNOLOGY IN TEACHING ENGLISH FOR SPECIFIC PURPOSES (ESP) IN HIGHER EDUCATION	8758
<i>V. Kareva</i>	
EDUCATION AS AN INSTRUMENT OF HUMAN CAPITAL DEVELOPMENT	8765
<i>V. Kirko, E. Kononova, A. Lukyanova, V. Razumovskaya</i>	
DEVELOPING AND TESTING WIND TURBINE MODELS AT UNIVERSITY NORTH	8771
<i>L. Havaš, J. Srpak, A. Šumiga, S. Skok</i>	
PARENTING STYLE AND ACADEMIC SELF-CONCEPT IN STUDENTS OF OLDER SCHOOL AGE	8778
<i>M. Popelková, E. Jurišová</i>	
FINAL DEGREE PROJECTS AS A TOOL FOR INNOVATION AND ENTREPRENEURSHIP	8786
<i>L.I. Hojas Hojas, E.M. García Del Toro</i>	
EFFECTIVENESS OF GRAPHICAL REPRESENTATIONS IN SOLVING WORD PROBLEMS IN ELEMENTARY MATHEMATICS CLASSES	8794
<i>N. Cibulskaitė</i>	
SEXUALITY IN PERSONS WITH MENTAL DISORDERS AND ITS CONCEPTION IN RESIDENTIAL SOCIAL SERVICES	8803
<i>Z. Kozakova, T. Prochazkova</i>	
RE-EXAMINING IDENTITY THROUGH RECONSTRUCTING AND DIGITIZING OLD STORIES	8813
<i>Z. Hojeij, P. Ozdemir-Ayber</i>	
COLLABORATIVE LEARNING ADVANCING STUDENTS FROM AFRICAN PORTUGUESE SPEAKING COUNTRIES: A MULTIDISCIPLINARY APPROACH	8814
<i>I. Inácio, A. Virtudes, V. Cavaleiro</i>	
THE 'FOCUS GROUP': A TOOL TO TRAIN METACOGNITIVE STRATEGIES AND CALIBRATE JUDGEMENTS IN UNIVERSITY STUDENTS OF ENGLISH	8824
<i>A. Puente Ferreras, J.F. Calderón Maureira</i>	
NEGOTIATING IMMIGRANT STUDENT CHALLENGES THROUGH CULTURALLY SUSTAINING PEDAGOGY	8831
<i>L. Kajee</i>	
LANGUAGE AND LITERACY ACQUISITION IN SIGN LANGUAGE: THEORIZING ABOUT THE APPLICABILITY OF THE CRITICAL PERIOD HYPOTHESIS FOR DEAF CHILDREN'S LANGUAGE DEVELOPMENT	8836
<i>A. van Staden</i>	

PHONOLOGICAL AWARENESS AS PREDICTOR OF SECOND LANGUAGE READING ABILITY AMONG SOUTH AFRICAN LEARNERS	8844
<i>A. van Staden, A.A. van Rhyh, N. Purcell</i>	
EDUCATION AGAINST VIOLENCE - INTERVENTION PROGRAM IN AN EDUCATIONAL INSTITUTION. APPLICATION OF THE IDEA OF HOW TO REDUCE THE SENSE OF INSECURITY CULTURE AND INSTITUTIONAL VIOLENCE IN EDUCATION	8851
<i>M. Farnicka, M. Kowalski</i>	
EXPERIENCES AND FEELINGS OF BEING A TEACHER IN THE INITIAL STAGE OF PROFESSIONAL ACTIVITY	8855
<i>R. Bubnys</i>	
THE CONCEPT OF SERVICE LEARNING AND HOW IT CAN BE INTEGRATED INTO THE CURRICULUM OF A HIGHER LEARNING INSTITUTION IN MALAYSIA	8861
<i>N. Ismail, K.Y. Soo, H. Ahmad, D.S. Ratan Singh, W.N.H. Wan Mohd, N. Arbin, S. Elias, I.S. Mohd Ariff Albakri</i>	
ADVANCING STEM EDUCATION AND RESEARCH IN PETROLEUM AND NATURAL GAS WORKFORCE DEVELOPMENT AND TRAINING INSTITUTIONS	8867
<i>S. Egarievwe</i>	
ASSERTIVENESS IN TEACHER COMMUNICATION	8873
<i>M. Kabat, K. Zajdel</i>	
USE OF TRAINING INTINERARIES FOR COMPETENCY-BASED TRAINING IN THE UNIVERSITY: A SYSTEMATIC REVIEW	8880
<i>L.I. Llinares-Insa, P. Gonzalez-Navarro, R. Zurriaga-Llorens, C. Jiménez-Lagos</i>	
TRAINING ITINERARIES AS A METHODOLOGY FOR COMPETENCY-BASED TRAINING: AN INNOVATIVE APPROACH	8890
<i>L.I. Llinares-Insa, P. González-Navarro, R. Zurriaga-Llorens, C. Jiménez-Lagos</i>	
EXPLORATORY STUDY OF INFORMATION ADMINISTRATION 2 IN THE SCHOOL OF COMPUTING AT AN OPEN DISTANCE UNIVERSITY	8896
<i>R. Naidoo</i>	
EXPLORATORY STUDY OF A MANUFACTURING MODULE IN AN ENGINEERING DEPARTMENT AT AN OPEN DISTANCE E-LEARNING INSTITUTION	8902
<i>R. Naidoo</i>	
DYNAMIC FACTORS AFFECTING TECHNOLOGY INTEGRATION IN ACCOUNTING CLASSROOMS: A LITERATURE REVIEW	8907
<i>M. Skhephe, N.P. Caga</i>	
ONLINE TUTORIALS AND STUDENT ACHIEVEMENT: A CASE OF ECOLOGY COURSE	8914
<i>Y.T. Hewindati, T. Belawati</i>	
FACTORS AFFECTING THE TEACHING OF READING COMPREHENSION: A CASE OF GRADE 3 ISIXHOSA HOME LANGUAGE LEARNERS	8922
<i>L. Fesi, S. Makeleni, N. Duku</i>	
TEACHING STRATEGIES USED BY TEACHERS TO SUPPORT GRADE 4 LEARNERS WITH READING DIFFICULTIES	8932
<i>L. Fesi, S. Makeleni</i>	
EXPLORATION OF LEARNER-CONTENT INTERACTION USING INTERACTIVE DIGITAL MATERIALS	8939
<i>T. Belawati, D.A. Padmo, D. Prasetyo</i>	
WHAT DETERMINES PROGRESS IN LANGUAGE SKILLS DEVELOPMENT OF ADULT LEARNERS IN THE CONTEXT OF ENGLISH COURSES FOR CZECH MILITARY PERSONNEL?	8949
<i>H. Brzobohata, J. Rozsypalkova</i>	
EXPLORING INFORMATION AND COMMUNICATION TECHNOLOGY INTEGRATION IN LIFE SCIENCES TEACHING IN RURAL SCHOOLS IN SOUTH AFRICA	8954
<i>X. Khalo</i>	
THE EFFICACY OF ONLINE RESOURCES IN THE LAW CLASSROOM: A CASE STUDY	8962
<i>H. Schoeman, P. Tarwireyi</i>	
MOCK EXAM AND FEEDBACK AS INSTRUMENTS TO ENHANCE EXAM SUCCESS	8972
<i>I. Mrozkova, K. Kučerová, M. Sikolova, J. Dooley</i>	
TRANSITIONING TO PERSONALISED AND PERSONAL LEARNING	8982
<i>S. Wheeler</i>	

LEARNING BASED IN PRACTICAL CASES ON A MATERIALS ENGINEERING COURSE	8983
<i>S.G. Prolongo, N. Abuwarda, X.X. Fernandez Sanchez-Romate</i>	
EXPLORING READINESS OF SOUTH AFRICAN UNIVERSITIES FOR THE FOURTH INDUSTRIAL REVOLUTION	8989
<i>V. Mncube, E. Olawale</i>	
THE ROLE OF HEAD TEACHERS IN THE IMPLEMENTATION OF INCLUSIVE EDUCATION POLICY IN THE PRIMARY SCHOOLS IN ESWATINI. A CASE STUDY	8996
<i>M.R.S. Magagula, B. Kafu-Quwane</i>	
MULTIPLE LANGUAGES IN CLASSROOMS IN ZIMBABWE: IS IT A MYTH?	9005
<i>S.K. Luggya, P. Bhebhe, E.O. Adu</i>	
INTEGRATING DIGITAL SEMIOTICS TO SECOND LANGUAGE TEACHING IN PRE-SERVICE TEACHER TRAINING	9011
<i>M.N. Mdledle</i>	
LEARNERS' PERSPECTIVES ON VANDALISM IN SCHOOLS	9017
<i>V. Mncube, J. Shumba</i>	
TEACHER MOTIVATION ON SCHOOL PERFORMANCE IN SOUTH AFRICA	9025
<i>S.K. Luggya, E.K. Luggya, M. Skhephe</i>	
STEM STUDIES NOWADAYS: ANALYSIS OF PERCEPTION, ACTUAL ASPECTS AND NEED OF FURTHER INTERACTION DURING HIGH SCHOOL EDUCATION	9031
<i>S.G. Prolongo, A. Jiménez-Suárez, M. Campo</i>	
EFFECT OF BRAND PERSONALITY ON EMPLOYEES RETENTION: EVIDENCE FROM SELECTED HIGHER EDUCATIONAL INSTITUTIONS IN SOUTH WEST NIGERIA	9040
<i>P. Adebayo, O. Kehinde, O. Ogunnaike</i>	
ANALYSING THE EMPOWERMENT OF WOMEN LEADERSHIP: A CASE STUDY OF A SOUTH AFRICAN HIGHER EDUCATION INSTITUTION	9046
<i>K. Ngwane, A. Ngcobo</i>	
AN INVESTIGATION INTO THE EFFECTIVENESS OF SMALL MEDIUM MICRO ENTERPRISES (SMMES) IN REDUCING UNEMPLOYMENT SOUTH AFRICA: A CASE STUDY OF UMSUNDUZI LOCAL MUNICIPALITY IN KWAZULU-NATAL	9053
<i>K. Ngwane, K. Cebekhulu</i>	
RETHINKING THE EFFICACY OF EXTENDED CURRICULUM PROGRAMS AS A PANACEA FOR STUDENT UNDER-PREPAREDNESS FOR TERTIARY STUDIES	9062
<i>S. Ramaila</i>	
THE IMPLICATIONS OF COVID-19 ON INNOVATIVE TEACHING METHODS IN THE DIGITAL ENVIRONMENT: AN ASSESSMENT OF TECHNOLOGICAL POVERTY BY ANALYZING THE INTERVENTIONS FINANCED BY PON 2014/2020	9066
<i>R. Manna, S. Calzone</i>	
ASSESSING SOCIAL INCLUSION USING A LONGITUDINAL ANALYSIS: PON 2014/2020 "FOR THE SCHOOL: SKILLS AND ENVIRONMENTS FOR LEARNING"	9067
<i>R. Manna, S. Calzone</i>	
ESPOUSING THE DETERMINANTS OF ACADEMIC STAFF RETENTION PRACTICES IN THE PUBLIC UNIVERSITIES	9068
<i>O. Salau, H. Falola, D. Ufua, T. Atolagbe, A. Osoko, F. Adeoye, J. Salau</i>	
EXPERIENCES OF STUDENT SUPPORT FOR STUDENTS FROM RURAL CONTEXTS STUDYING TOWARDS RECEPTION YEAR TEACHING QUALIFICATION AT A DISTANCE	9077
<i>C. Makwara</i>	
IMPLEMENTATION OF AN ACADEMIC PROGRAM BASED ON INNOVATION AND ENTREPRENEURSHIP IN THE NURSING DEGREE	9085
<i>M. Muñoz Gimeno, C. Martínez Gaitero</i>	
LECTURERS' PERSPECTIVES ON THE USE OF BLACKBOARD AS A LEARNING SUPPORT TOOL: A CASE OF A UNIVERSITY IN SOUTH AFRICA	9089
<i>N.P. Caga</i>	
THE USE OF PROCESS APPROACH TO IMPROVE LEARNERS' ENGLISH FIRST ADDITIONAL LANGUAGE WRITING SKILL: LITERATURE REVIEW	9094
<i>N.P. Caga, M. Skhephe</i>	
META-EVALUATION STRATEGIES FOR HIGHER EDUCATION: A REVIEW OF THE METRICS USED TO ASSESS UNIVERSITIES' BUSINESS TRANSFORMATION AND INNOVATION READINESS	9095
<i>V. Paraschiveanu, R. Voicu Dorobantu</i>	

IMMERSIVE LEARNING: HEURISTIC DEVICE FOR TRANSMITTING SOCIAL IMAGINARIES 9096

S. Dugal, N. Colicci, A. Bikash, A. Weston, L. Janz, N. Katchen, K. Bugbee, T. Martinez, L. Denicola, L. Cardono, M. Degnan, A. Roberti, O. Palumbo, K. Solomon, S. Wordell, B. Bolofsky, T. Mulligan, A. Lopez, C. Morganelli, B. Matarese, K. Jensen, A. Sullivan, B. Mulligan, D. Jones, N. Amodio, M. Augustine, K. Fasano, R. Forte, H. Mecca, V. Volpe, M. Oppliger, T. Ritacco, M. Boelter, M. Bowman, C. Chen, M. Pelisson, B. Nong, S. Costello, P. Costanzo, Z. Buckley, K. Naranjo, E. Lis, D. Ayrassian, J. Milder, Y. Alosbhan, J. Repoza, M. Fuhrman, R. Kattan, C. Hladick, D. Brysch, S. Vicedomine, M. Volpe, D. Meyen, M. Troiano, R. Singh, S. Singh

TEACHING COMMUNICATION SKILLS: LEARNING FROM THE BEST. MOTIVATIONAL SPEECHES OF W. CHURCHILL, S. JOBS, AND E. WATSON 9098

I. Mrozkova

ELDERLY PEOPLE, COVID-19 AND TECHNOLOGIES: A QUALITATIVE RESEARCH

E. Cirilli, P. Nicolini

University of Macerata (ITALY)

Abstract

From a psycho-pedagogical point of view, entering the category of elderly people means having an age from 65 years onwards. The medical development, the increase in the level of education and the progressive postponement of leaving the world of work have contributed to improve the quality of life of elderly people and, increase the survival rate. At this historic moment, the health emergency caused by the uncontrolled spread of the Covid-19 virus has significantly reduced the quality of life of the whole population, from children to the elderly. Technologies, as never before, expand the possibilities of communication, sociality, information and access to services.

This paper aims to illustrate the qualitative research carried out with older people during the quarantine period for the Covid-19 emergency. This research stems from a question: How do older people manage to get out of the aloneness created by the Covid-19 emergency?

The researchers chose to carry out a qualitative research to answer this question. Participants will be 30 elderly people aged 65 or more, present in Italy. The research methodology has provided the realization of a semi-structured interview. The interview questions were also divided into three topics: daily life before and after Covid-19, ways of interacting with people during the emergency from Covid-19 and the use of technologies. This qualitative research is still in progress due to the prolongation of the Covid19 emergency and represents a starting point.

The data of this research can be useful for the design of trainings for educators, social workers, family members who relate daily to older people, but at the same time they are used to be able to implement concrete actions with and for older people in order to help them improve the quality of life both in emergency and in "normal" contexts.

Keywords: Elderly people; the Covid-19 emergency; ICT skill; Lifelong learning

1 INTRODUCTION

The WHO defined the health as "a state of complete physical, mental and social well-being and not simply the absence of disease or infirmity". [1] Analysing with a critical thought the health emergency that we are experiencing today in Italy and in the rest of the world, the question arises spontaneously: "How should these characteristics be maintained in this period of emergency COVID-19?" World Health Organization director Tedros Adhanom Ghebreyesus said in a press conference in Geneva that "WHO has assessed that Covid-19 can be considered as a pandemic." This Covid-19 emergency does not allow simultaneously physical, mental and social well-being, characteristics of the definition of health.

From the Italian Ministry of Health website, we can read all the containment measures adopted in Italy: "The Council of Ministers passed a law decree on February 23, 2020 with measures for the prohibition of access and removal in the municipalities where there are outbreaks and the suspension of demonstrations and events. Subsequently, the following implementing decrees were issued: the Dpcm 25 February 2020, the Dpcm 1 March 2020, the Dpcm 4 March 2020, the Dpcm 8 March 2020, the Dpcm 9 March 2020 #lorestoacasa, the Dpcm 11 March 2020 which imposes the closure of non-essential commercial activities. Among the measures also adopted the ordinance of 22 March 2020, jointly signed by the Minister of Health and the Minister of the Interior, which prohibits all the people from relocating or moving with public or private transport to a different municipality than that one in which they are located, except for proven work needs, of absolute urgency or for health reasons. The Government then issued with the Presidential Decree of 22 March 2020 new additional measures regarding the containment and management of the epidemiological emergency from COVID-19, applicable throughout the national territory. The provision provides for the closure of non-essential or strategic production activities. Food shops, pharmacies, basic necessities shops and essential services remain open. The same provisions apply, cumulatively to the Prime Ministerial Decree of 11 March 2020 as well as to those provided for by the ordinance of the Minister of Health of 20 March 2020, whose

terms of effectiveness, already set for 25 March 2020, are both extended to 3 April 2020. With DPCM April 1, 2020, all measures to combat the spread of coronavirus infection have been extended until April 13, 2020. The decree which came into force on April 4 also suspends the training sessions of athletes, professionals and non-professionals, at interior of sports facilities of all kinds. Subsequently, with the Prime Ministerial Decree of April 10, 2020, all measures were extended until May 3. The Dpcm allows the reopening from April 14 of the baby stores, bookstores and stationery stores. Finally, with the Prime Ministerial Decree of April 26, 2020, they specified the measures for the containment of the Covid-19 emergency of the so-called "phase two". The provisions of the decree apply from May 4, 2020 to replace those of the Prime Minister's Decree of April 10, 2020 and they are effective until 17 May 2020, with the exception of what is foreseen for business activities, which apply cumulatively from 27 April 2020." [2]

Reading these containment measures implemented in Italy, the uncontrolled spread of Covid-19 has significantly reduced the quality of life of the whole population, from children to the elderly. Separation from loved ones, loss of personal freedom, uncertainty about their health or illness can have negative effects on individuals' psyche. As the Greek philosopher Aristotle wrote in the fourth century BC, man is a social animal because he tends to aggregate with other individuals and to constitute himself in society. Aristotle himself wondered if such sociality was a primary instinct or the result of other needs. In this historical moment, the absence of social relationships is strongly felt by the entire population. Private and public people are promoting initiatives to safeguard the quality of life of the population in economic, health, education, relationship terms,...

The methods of interaction, information and entertainment are favouring the mediation of the technological tool. There are numerous examples that we can observe within our daily lives: people who were used to buying the paper newspaper are preferring television as a medium of information or the websites of the publishers themselves; schools, from kindergartens to university, have changed the training methods, preferring distance learning and webinars; companies have enabled their workers to perform smart working; sports centres started to perform gymnastics lessons online; people are discovering numerous platforms that allow them to keep in touch with family, friends, relatives who are not inside their housing unit; public and private people have started direct cooking, concerts, ... First of all, these initiatives allow us to continue participating and interacting with people. Secondly, they allow us to carry out the "normal" daily activities as we would have done thanks to participation and face-to-face interaction with other people. In this Covid-19 pandemic, technological tools are making this possible. Technologies in the role of mediators favour the quality of life because they make our daily routine continue, even if transformed by the restrictions of some of its domains. In this emergency situation the new technologies represent the most used tool by the whole population to face the isolation to which we are forced to impose. These technologies were already used before the start of this pandemic. To date, the number of people who use them has grown exponentially. The whole population started using them. When we talk about population and technologies, a naive theory makes us eliminate the range of older people within this dichotomy.

According to the psycho-pedagogical disciplines, the age group of people aged 65 and over fall into the category of the elderly. Within this category there are subcategories of older people who are divided as follows: young seniors ranging from 65 to 74 years old, seniors from 75 to 84 years old, big seniors from 85 to 99 years old and centenarians from 100 years old upward. According to naive theories, elderly people would not be very competent in the use of technologies. The ISTAT data of the 2019 annual report, however, tell us that in the last decade, in Italy, young elderly people have significantly increased the share of regular internet use from 6% to 34%. If we consider all the subcategories of the elderly, people aged 65 and over, the data tells us that 21.7% regularly use the internet. Analysing this data, we can observe that people born before 1934 use the internet in a limited way for men and not for women. The data of people born after 1934 are slightly different from the previous ones, since the use of the internet would be 8% for men and 0.7% for women. The young elderly category would represent the highest utilization figure among all the elderly categories: men for 44.7% and women for 34.9%. The most used device is the smartphone, used for instant messaging services (70.7% of the elderly), for e-mail (64.7%), for reading newspapers, information and online magazines (57, 6%) and for health information (47.7%). [3] The percentages are lower for video and music sharing services, mostly used by older men, and for the use of social networks, mostly used by older women. Technologies are chosen by older people, as they represent an opportunity to maintain interpersonal contacts, to exchange information and to be updated on the outside world by reducing the feeling of social and relational isolation.

2 METHODOLOGY

The research team, made up of the two authors, has as its main theme "the interaction between people and technologies". Based on the scientific literature and driven by the historical emergency that is involving us all, the authors asked themselves as a research question: How do older people manage to get out of the aloneness created by the Covid-19 emergency?

For this research the authors have chosen older people as the reference sample. Incline with the choice to carry out a qualitative research, 30 is the maximum number of elderly people intended to reach. According to the psycho-pedagogical area, entering the category of elderly people means having an age ranging from 65 years upwards. Psycho-pedagogical scholars have divided this macro-category of the elderly into 4 micro-categories: young elderly people from 65 to 74 years old, elderly people from 75 to 84 years old, elderly adults from 85 to 99 years old and centenarians from 100 years upwards. People were selected on the basis of three criteria: chronological age, living at home and people residing in the Marche region of Italy. The choice of the first criterion for selecting people arises from the state of the art mentioned above and from the research question. The second selection criterion is strongly connected with the domain of self-determination of the quality of life. The studies in this regard tell us that the possibility of choice is one of the domains that allows people to be autonomous both in daily life and in the choice of the tools that support us. [4] The third criterion is connected to the home of our membership, the University of Macerata, which is located in the Marche region too. The Marche region is an Italian region of central Italy, with the province of Ancona. Geographically: to the east it overlooks the Adriatic Sea; to the west, the Umbria-Marche Apennines mark the border with Tuscany and Umbria; to the north the region borders with Emilia-Romagna and the Republic of San Marino, to the south with Abruzzo and Lazio. Much of the territory is hilly. Most of the inhabited centers are placed on the top of the hills. The inhabited centers have an urban dimension and vocation. The economic-entrepreneurial model, called the "Marche model", is characterized by the thriving and diversified high-specialization small-medium industry distributed equally throughout its territory, but mainly concentrated on the coast and in the valleys.

The methodological tool chosen by the research team is that of the semi-structured interview. The interview was created on the basis of three topics: daily life before and after Covid-19, ways of interacting with people during the Covid-19 pandemic and the use of technologies. The structure of the research tool is characterized by 3 parts: the introductory part on the research and methodology chosen; 9 open, fixed and ordered questions; and the part on the interviewee's demographic data: gender, chronological age, residence, profession prior to retirement. The date, time and name of the researchers who carried out the interview were also noted. The questions are divided on the basis of the preset topics:

- on daily life before and after Covid-19 there are 2 questions: "How was your daily life before the epidemic?", "How did you organize your daily life at this time at home?";
- the ways of interacting with people during this pandemic, there are 2 questions: "Who is he in contact with now?", "How is he in contact?"
- on the use of technologies there are 5 questions: "What technological devices are present in your home?", "What type of use do you make of these devices?", "As a result of the situation of Covid-19, you started using of technological devices / instruments? ", " Did you use these technological devices before? ", " How did you come to use them? ".

The research team conducted the interviews via a call to the selected sample and each interview was recorded in order to be able to better analyze the data that will emerge. The data of the interviewees will be treated with respect for anonymity. The interview was transcribed immediately after its conclusion and prior to the execution of the next. Each interview was transcribed respecting the person's narrative order and trying to use the words and phrases used by the interviewer.

The analysis of the interviews took place inductively, from the particular to the general. The research team carried out two analysis steps: longitudinal and transversal. The first analysis took place longitudinally. Each individual interview was analyzed individually: initially by connecting the answers given to the questions asked and subsequently to the topics. The second analysis took place transversely: initially all the answers of each interviewee connected to the topics were transcribed in a single file; subsequently the answers were compared to have conceptual labels which were in turn collected into broader thematic categories. This second analysis was carried out in two sub-steps: the first sub-step provided for the cross-sectional analysis of all the interviews for each micro-category of elderly people: young elderly, elderly, elderly adults and centenarians; the second sub-step involved cross-cutting analysis of all the interviews carried out. The type of analysis chosen is halfway between

the illustrative and restitutive type. The research team wants to bring out the content and theme of the interviews on the one hand and on the other hand wants to bring out the knowledge of the interviewees.

This qualitative research began from the end of February 2020 and is still ongoing, since on the one hand the researchers are trying to expand the sample to other sections of the population and on the other hand they want to have a diachronic view of the research results given the prolong the pandemic from Covid-19.

3 RESULTS

In this paper, the researchers will illustrate the results of the longitudinal and transversal analysis carried out on the interviews with young elderly people. As already explained, young seniors are that micro-category of seniors who are aged between 65 and 74. The young elders selected and interviewed are 11: 3 women and 8 males. The average age of women is 67.3 years. The average age of men is 68.8 years. The average age of the people interviewed is 68.4 years (Table 1).

Table 1. Shows the respondents' gender and average age.

	F	M	TOTAL
The Young Elder	3	8	11
average age	67,3	68,8	68,4

All the interviewees live in their home, are resident in the Marche region and are all retired except the interviewee F. (Man, 65 years old).

3.1 Results of the longitudinal analysis

First of all, from the longitudinal analysis of the individual interviews it emerges that the respondents answered all the questions asked.

As for the structure of the interview, some have anticipated the answers of the subsequent questions. For example, after explaining the introductory part to the research and methodology, the interviewee L. answered all the questions that the interviewer should have asked him later. The interviewee S. and F. (Female, 65 years old) anticipated the second question of the topic on how to interact with people during Covid-19, naming the methods of interaction. During the interview of the interviewee G. (72 years old), the answers to the first two questions were indirectly suggested by a background voice, subsequently the interviewee gave direct and first-person answers. The background voice was no longer heard and Mr. G. also added unsolicited anecdotes, but still related to the Covid-19 emergency.

As for the topic on daily life before and after the Covid-19 emergency: before the interviewer asked him the questions and during the interview, the interviewee G. (65 years old), U., G. (73 years old), F. (F, 65 years old) have repeated several times that their daily lives are not so different between before and during, since they were all already retired or as F. housewife. Unlike the three previous interviewees, the interviewee F. (71 years old) and T., want to emphasize that their daily lives have changed a lot, since before the emergency they didn't spend much time at home, they were always with friends or engaged with the numerous associations to which they belong. The interviewee F. (F, 65 years old) believes that her daily life has changed in the frequency of the activities / commitments she had and has now. Before she went shopping every two days and now only once a week or once a week, she had training lessons at a dog center. Always F. (F, 65 years old), T. and S. add that they can no longer cultivate the same hobbies that they previously had: walks in the open air, attending cultural centers, ... The interviewees T., S., F. (71 years old), G. (73 years old), G. (65 years old) say that the frequency and quality of relationships with friends and relatives has changed compared to vis a vis. Respondents who have a garden or a piece of land say they are spending more time on it than before. The interviewees L. and T. point out that they paid a person other than the family to guard the garden or the piece of land. In some respondents, the pandemic has led to the rediscovery or discovery of new passions / activities. The interviewee F. (M, 65 years old) has started painting again. The S. and G. interviewees (72 years old) started to prepare the food with their hands, rediscovering the authenticity and flavors of the past. Other people, however, had to put rewarding passions / activities on standby. The interviewee U. cannot go to mushrooms or pick wild herbs. The interviewee G. (72 years old) cannot help the parish priest of the city. Some others have reorganized how they can use their businesses. Interviewee G. (72 years old) attended a face-to-face dance course and now performs it online thanks to the dance lessons that the club sends him.

As for the second topic on the methods of interaction, almost everyone remained in contact with friends and / or family members and in different ways. Some people interviewed prefer to make simple calls and / or exchange messages with friends and use video calls, the exchange of photos and videos with family members, such as respondents S., G. (73 years old) and G. (65 years old). Other people use all the technological tools they have to stay in touch with both friends and family, such as the interviewees G. (73 years old), F. (F, 65 years old) and F. (M, 71 years old). The interviewee F. (M, 65 years old) prefers to use the smartphone and interacts with friends with social networks, while with WhatsApp he interacts with family members. Interviewee T. uses her husband's smartphone to contact friends and family, as she has an older generation phone. Interviewee P. has only been in contact with family members via calls, since despite having a smartphone she does not use it for relations.

As for the third topic on the use of technologies, all respondents have some technological devices in their home and they were already using before the pandemic. All the interviewees have at least one smartphone, except the interviewee T. uses her husband's devices, since until a few months ago she had an old generation phone. In this pandemic, her husband gave her an old generation smartphone, but they failed to connect it to the internet. Instead, the interviewee G. (65 years old) independently uses the mobile phone with WhatsApp to receive and send messages and relies on his teacher wife to be able to make group video calls thanks to the platforms that she uses for work. The method of use, the apps downloaded and used vary from person to person. Some interviewees, such as F. (M, 65 years old), mostly use Facebook and WhatsApp. The interviewee F. (M, 65 years old) points out that the pandemic and the technological tool of the smartphone with WhatsApp has allowed him to reconnect with his cousins and cousins from the Lombardy region that he has not heard for a long time. F. (M, 65 years old) adds that he manages to find out about the same news from several points of view thanks to Facebook and searches on the websites used via smartphone. The interviewee P., on the other hand, mostly uses an older generation mobile phone despite having a smartphone available. The use of the smartphone is strictly connected to the search for news: P. says that the night before he reads all the news which will then be published in the paper newspaper. Even the interviewee G. (65 years old) uses the phone to stay up to date on the news, since he does not buy the paper newspaper as little as possible. The interviewee S. downloads telegram, which is a cloud-based instant messaging and broadcasting service within which municipal administrations send information about the Covid-19 emergency right now. From the interview of Mr. P., it emerges that he rarely used the smartphone to search for health information, since he prefers to seek medical attention given the lack of competence in discerning the actual symptoms of the alleged disease and his own symptoms. Mr. F. (M, 71 years old) claims not to be a technological person, despite having understood how to use WhatsApp. This interviewee states that he calls the people who called him and that thanks to his grandchildren he managed to make group video calls with family members. Interviewee S. downloaded game apps to her smartphone to pass the time and improve her cognitive skills. She adds that in some games there is the possibility to chat with one's opponent and this service gratifies her a lot since she interacts with people all over Italy and abroad. Mr. G. (73 years old) wanted to download games on the advice of his Belgian cousin, but was unable to download. Interesting answers were given by three interviewees, Mr. U. and Mr. L., Mr. F. (M, 71 years old) and Mrs. S. have inserted in the technological devices used some tools related to their previous profession. Mr. U., previously a nurse, says he continues to use the pulse oximeter and sphygmomanometer at home. Ms. S., previously sales manager, continues to use the computer to shop online and to manage the fiscal aspect of the family. Regarding the use of the computer, the interviewees G. (73 years old), F. (M, 71 years old), F. (M, 65 years old), G. (72 years old), G. (73 years old) and L. say that they prefer the smartphone as it is within reach, has everything inside and is easier to use. For example: the interviewee F. (M, 71 years old) and L. rarely use it and to check emails; the interviewee F. (M, 65 years old) to print the files; interviewee G. (71 years old) says that its use bores him; interviewee G. (73 years old) used it to buy and sell vintage motorcycles in past years. Instead, the interviewee F. (F, 65 years old) and U. use it more than the previous interviewees. F. (F, 65 years old) and U. use the computer to view Facebook, to search for news, make individual or group calls with Skype. In addition to this, F. (F, 65 years old) thanks to the computer sees the fiction or television series of the previous days, instead, U. views the medical reports through the sanitary platform. The results that emerge from the answers to the last question of this topic of the interviewees G. (73 years old), F. (F, 65 years old), F. (M, 71 years old), S. and T. say that initially they were routed and supported by a familiar figure towards the use and choice of technological tools. Other respondents, such as G. (65 years old) and U., have started using these tools for work and after mandatory training in the company. Instead, the interviewee L. learned to use them as a self-taught. The interviewees U., F. (F, 65 years old), G. (72 years old), P. ask for support from family members in case of blocking of the device or in case of problems that they cannot independently resolve. Three interviewees F. (M, 65 years old), F. (F, 65 years old) and S. are keen to point out in their responses that in this pandemic they

have increased the frequency of use. Even the interviewee G. (72 years old) says that despite having them, he did not use them at all because his day was dedicated to other activities.

3.2 Results of the cross-sectional analysis

Subsequently, the research team carried out the cross-sectional analysis of the interviews of the micro-category of the young elderly already analyzed individually. 4 thematic categories emerge from this analysis: "change", "the need to stay in touch"; "the choice of technological tools and the purpose of use" and "the support of previous generations". From the comparison of all the answers, from the subsequent cataloging and comparison of the conceptual labels, "change" was chosen as the thematic category. In Table 2 the results of some significant text units that allowed us to choose this thematic category were transcribed:

Table 2. significant text units for the thematic category "change".

SIGNIFICANT TEXT UNITS
"Before I didn't do many things, but every morning I went to the bar, I went for walks, I read the newspaper, I talked with friends." "Now I don't go out anymore, I dedicate myself to chores at home, I do gardening." (G. 73 years old)
"My daily life was made up of work, free time, commitments to my family and an invalid brother". "Now for my safety and that of my colleagues I have a day off, I go shopping a lot less than before and I go to visit my brother only once a week." (F. M, 65 years old)
"Being part of many associations, I was very busy in their activities, then in the morning I worked the garden, in the afternoon I went to the bar with friends and after 16 I went home and from spring to summer I went back to my garden." "Now my day is structured as follows: countryside, countryside, and countryside." (F. M, 71 years old)
"Having food intolerances, I had started to prepare everything at home, but I had stopped." "Now I have started again and rediscovered the flavors and pleasure of homemade things." "Before I went to the P.P.P. study center, I played "burraco", I went to the opera, I met friends, I went to the cinema, ..." "Now I am at home, I go around the house, I interact with friends through calls, ..." (S.)
"I devoted myself to doing housework, I went to gym, I took care of my grandchildren, I was busy with volleyball." "Now I'm at home with my husband, I always do household chores and take care of the garden." (T.)
"After retiring, I continued to follow the companies I worked for free of charge." "Now I can't do it, but fortunately being in the countryside I started to take care of the olive trees, avoiding to call a person who would do it instead of me." (L.)
"My daily life as a pensioner was so structured: I did some chores around the house, I went to the bar and bought the newspaper, I played cards, I collected the mushrooms and the herbs of the field." "Now I'm more restricted in the activities I can do, I can't move from home." (U.)
"Before the pandemic I went around, I played cards at the bar, I did a dance class, I helped the parish priest, I volunteered when I left the schools." "Now I play cards with my son, I do the dance course through videos, I can't help the parish priest, ..." (G. 72 years old)

Another thematic category that emerges from the cross-sectional analysis is "the need to stay in touch". In Table 3, the authors transcribed some answers:

Table 3. significant text units for the thematic category "the need to stay in touch".

SIGNIFICANT TEXT UNITS
"I am in contact with friends and family even far from me" (F. F, 65 years old)
"I am in contact with friends and family via the smartphone [...] and we spend a lot of hours on the phone." (G. M, 72 years old)
"I am in contact with friends and family via the smartphone and we often hear each other." (F. M, 71 years old)
"I am in contact with my family in the presence, I feel with my superiors and we change posts and messages with friends on social networks. [...]"It is now a necessity for quality of life." (F. M, 65 years old)
"I am in contact with family members [...] and friends with whom we interact to exchange tips on gardening that we used to do together before." (G. 73 years old)

"I am in contact with my family and friends and we make long calls and we exchange many messages to comment on the day and the television programs." (S.)

"I am in direct contact with family members who live with me and by telephone with those far away." (P.)

The third thematic category that emerged from the cross-sectional analysis is "the choice of technological tools and the purpose of use". Table 4 shows the significant text units that deal with this category:

Table 4. significant text units for the thematic category "the choice of technological tools and the purpose of use".

SIGNIFICANT TEXT UNITS
"I have an old generation phone with which I receive / send calls and messages. I have a smartphone, granted to me by a family member, with whom I search for news on the web." "Sometimes I use the smartphone to search for health news, but they generate more anguish than anything else. I do it only to have the technical knowledge of some pathologies." (P.)
"With my smartphone and computer, I send and receive messages, photos, videos, I go to Facebook to read news, recipes, to communicate with my friends. I use TV to watch numerous TV series, documentaries, entertainment programs, fiction and the newscasts since I turn it on early in the morning."(F., F, 65 years old)
"Apart from those useful in the health sector such as the pulse oximeter, the pressure device, I use the computer to go to Facebook, to search the internet for news, I make single and group calls." (U.)
"With the smartphone I use Facebook and WhatsApp [...] During this pandemic, I had the pleasure of being part of a WhatsApp group with my cousins from Lombardy with whom we write, send photos. I was pleased because they I feel close." "I also have a desktop computer at home, I don't use it almost for nothing, just to print. I prefer to use the smartphone." (F., M, 65 years old)
"I phone via WhatsApp. I'm not very technological, but for video calls with family members, I use the platforms that my wife uses to teach." (G. 65 years old)
"I used and use the computer. I use messenger, WhatsApp, telegram to make up for the times and chat with some friends or family. I download and spend time with apps for games that allow me to improve my cognitive skills, to play online "burraco" that has chats that allow you to interact with people who play with the app both in Italy and abroad." (S.)

In this thematic category, as regards the choice of technology tools, the research team counted the number of devices used by respondents. Table 5 shows that the smartphone represents the tool most cited by the interviewees (10/11), the computer is in second place (5/11), the smart TV or normal TV is in third place (4/11), followed by the old generation phone (2/11) and finally by medical devices (1/11), nobody mentioned the tablet.

Table 5. The choice of technological tools.

TECHNOLOGICAL TOOLS	N°
Smartphone	10
Computer	5
Smart tv e tv normale	4
Old generation phone	2
Medical equipment	1

Based on these data, the research team found it useful for a better understanding to make a correlation between the technological tool chosen and the purpose of use. The five tools nominated by the interviewees was associated with the purposes of use in Table 6. As emerges from the table, the smartphone is the most used tool and the main purposes for which it is used are.

Table 6. Correlation between technological tools and purpose of use.

TECHNOLOGICAL TOOLS	PURPOSE OF USE
Smartphone	WhatsApp: - videocalls, calls, messages, exchange of photos and videos with distant family members (6/11); - videocalls, calls, messages, exchange of photos and videos with friends (1/11).

	<p>Normal calls: - long calls and many messages with friends (5/11).</p> <p>Telegram: - read the local information that is written by the municipal administration (2/11).</p> <p>Facebook: - write and share posts with friends (1/11); - write messages with messenger (4/11); - read current news (5/11); - look for funny videos and photos (1/11).</p> <p>Web sites: - search and read current news (2/11); - read the web newspapers (2/11); - rarely seek sanitaire news (1/11).</p> <p>Game apps: - download the game apps the respondents' used to play with people (1/11); - chat with the gamers (1/11).</p>
Computer	<ul style="list-style-type: none"> - receive and send emails (2/11); - print files (1/11); - buy and sell classic cars (1/11); - use Facebook page and make calls with Skype (2/11); - review TV series, fiction and television programs (1/11).
Smart tv and normal tv	<ul style="list-style-type: none"> - look the newscasts (4/11); - look the documentary (3/11); - look historical and geographic documentaries (2/11); - look TV series, fiction and television programs (2/11).
Old generation phone	<ul style="list-style-type: none"> - calls with distant family members (1/11); - calls and messages with friends (1/11).
Medical equipment	<ul style="list-style-type: none"> - pulse oximeter and sphygmomanometer to measure oxygen saturation and blood pressure (1/11).

The last thematic category that emerged from the cross-sectional analysis is "the support of previous generations" both in daily activities and in the choice and initial and sometimes subsequent use of technologies for people in this micro-category of elderly. In Table 7 the authors have transcribed some significant text units.

Table 7. Significant text units for the thematic category "the support of previous generations".

SIGNIFICANT TEXT UNITS

"I came to use them thanks to my son who is a computer engineer who introduced us and directed us towards the choice of the device, then independently thanks to my curiosity looking on the web I try to use it and download things on my own." (S.)

"My son do not want me to go out and they go shopping for me since I am old and according to them it is better if I stay at home." "My son advised me to buy them. My son, who is a computer engineer, helped me choose the technological tools and explained how to use them. If I do any "damage" I call them." (F. M, 71 years old)

"My grandchildren helped me use it, gave me some tips and then I left alone. If I have any problems, I call them." (G. 73 years old)

"Every now and then I ask my son and he helps me. Every now and then I can't remember or I don't take it, so I ask my son." (G. 72 years old)

"I would like to do more, but I am afraid of making mistakes. I would like to use internet banking, pay bills online, buy online, ... but I am afraid to buy one thing for another and therefore I ask my son." (U.)

"I came to use them with the help of my son, otherwise I don't understand much and still understand very little. When the computer or smartphone freezes or strange writing appears, I stop and call my son." (F. F, 65 years old)

4 CONCLUSIONS

In this paper, the researchers showed part of the results of the qualitative research that they have partially carried out and are carrying out. If we were to resume the research question that the authors asked at the beginning "How do older people manage to get out of the loneliness created by the Covid-19 emergency?" the answer is clear from the data emerging from the longitudinal and transversal analyses.

On the basis of the data shown, it can be said that the micro-category of young elderly people has tried to reorganize their lives in light of the considerable restrictions that the government has taken and continues to take. A second reorganization of your daily routine. Second reorganization, since the first major reorganization is due to the transition from the condition of worker to the condition of pensioner. Like every step in our life, being in a new condition that of being a pensioner involves losing a balance, a routine that for years was a source of habit and personal gratification. The transition from worker status to pensioner status provides for a moment of reasoning generated by the same bureaucratic practices. This period of reason allows the person to imagine his new status, to be able to choose the activities to do when retirement arrives, to be able to reorganize his daily routine. This step and this reorganization take time and the new condition is matured mentally. The Covid-19 emergency did not allow people to have time to reorganize their daily lives. He asked all the people to stay at home, where to stay at home, one intends not to leave the house. Analysis of the interviews shows that young elderly people have not felt this sudden and sudden change heavy. Many of the interviewees started their interviews saying "I didn't do many things, I was retired". When asked to deepen their daily routine, the activities they used to perform were considerably greater and more varied than those that are still being carried out. The pandemic has certainly generated the social distancing, since the measures chosen by governments around the world and also in Italy do not allow social interaction intended in the ways in which we are used to reasoning. A social interaction that brings people closer to each other. A social interaction that presupposes physical presence. This definition is already outdated, as the context we are experiencing makes us physically distant, but socially close. The results of this part of the research show how all the people interviewed found a way to stay in touch, a different contact that does not contemplate the possibility of touching, but of being close in the same way. The people interviewed by social animals as they are have started to use all those tools available to be close. The technological tools chosen are the means that allows all this. The results show that everyone who more or less uses the technological tools to be able to interact with family and friends. If you re-read the ISTAT data regarding the technologies used by the category of the elderly population with the results of the interviews carried out, you can see how the micro-category of the young elderly has become more competent and they have increased the purposes of using the devices. [3] Most of the interviewees add that although they already had the devices before the pandemic, they discovered new features and significantly increased their use in terms of daily frequency. The merit of this specialization derives from two causes: digital skills and intergenerational exchanges. To date, digital skills have become part of the set of cardinal objectives for the development of the child now and the adult subsequently. These skills have been taught and evaluated at the Italian school for less than 5 years.[5] The people interviewed were not lucky enough to be able to learn these skills in school age, but some acquired them through training courses, others by self-taught, others with the support of family members, ... The support of previous generations, more competent, has allowed the so-called intergenerational exchange.[6] Like any exchange, the intergeneration exchange allows the improvement of a given competence both for the bigger person and for the smaller person. From the interviews it emerged that grandchildren, sons and daughters were the main support in choosing the right tool for their loved one, but in the initial training and sometimes also in the resolution of small blocks of the technological tool and in the person.

This qualitative research represents a starting point, since other interviews have already been conducted with the micro-categories of older people. In addition, interviews with other categories of the population have been scheduled. Authors are starting to carry them out for people who are of working age always in the Marche region. A limitation of this research is the absence of direct and visual contact with the people interviewed, since through calls it is not possible to observe the whole set of non-verbal behaviours except the tone of the voice. The other limit could be in the choice of people residing in the Marche region. Later it could also include other people throughout Italy. The strengths of the research are numerous: the first is in the possibility given to the people interviewed to be able to make the social knowledge of the people involved say; the other point is in the results, the researchers think that the results that emerged are useful for trainers, educators, social workers. The results can allow these workers to plan activities, training, life projects that take into account people's needs, needs and potential. At the same time, efforts were made to destroy the naive theory that limits the planning of activities with technological tools for older people with the results of the interviews. Finally, the aim was

to give voice to the people who are experiencing this emergency, in order to give organizational cues for other people as well.

ACKNOWLEDGEMENTS

The research team wants to thank the interviewees: Sisa, Federica, Giovanni, Franco, Teresita, Franco, Giorgio, Lucio, Piergiorgio, Giovanni, Umberto and Giovanni.

REFERENCES

- [1] WHO, Constitution, Accessed 14 April, 2020. Retrieved from <https://www.who.int/about/who-we-are/constitution>.
- [2] Ministro della Salute, Covid-19 - Situazione in Italia, Accessed 28/04/2020, Retrieved from <http://www.salute.gov.it/portale/nuovocoronavirus/dettaglioContenutiNuovoCoronavirus.jsp?lingua=italiano&id=5351&area=nuovoCoronavirus&menu=vuoto> .
- [3] ISTAT, Rapporto annuale 2019 - La situazione del Paese, Accessed 27/03/2020, Retrieved from <https://www.istat.it/it/archivio/230897> .
- [4] C. Giaconi, Qualità della vita e adulti con disabilità. Percorsi di ricerca e prospettive inclusive. Milano: Franco Angeli, 2015.
- [5] MIUR. (n.d.). Piano Nazionale Scuola Digitale. Retrieved 30 March, 2020, from http://www.istruzione.it/scuola_digitale/allegati/Materiali/pnsd-layout-30.10-WEB.pdf.
- [6] E. Cirilli, P. Nicolini, L. Mandolini, "DIGITAL SKILLS FROM SILENT TO ALPHA GENERATION: AN OVERVIEW" in EDULEARN19 Proceedings 11th International Conference on Education and New Learning Technologies, IATED Academy; pp. 5134 - 5142 (ISBN: 978-84-09-12031-4).