ISSN: 2587-1730

ICEMST 2015: International Conference on Education in Mathematics, Science & Technology
April 2015
Antalya, Turkey

Edited by: Mustafa Pehlivan (Co-chair), Necmettin Erbakan University, Turkey

©2015 Published by the ISRES Publishing
ICEMST 2015 DECEMBER

Volume 2, Pages 1-263 (December 2015)
The Eurasia Proceedings of Educational & Social Sciences EPESS
e-ISSN: 2587-1730
©2015 Published by the ISRES Publishing
Edited by: Mustafa Pehlivan

Articles: 1-39
Dates: April 2015
Location: Antalya, Turkey

Conference Chair(s): Prof. Dr. Mustafa Pehlivan, Necmettin Erbakan University, Turkey

THE USE OF SIMPLE EXPERIMENTS IN TEACHING PHYSICS TO THE CHILDREN WITH SPECIAL NEEDS / Pages: 1-4
Dušanka Ž. OBADOVIĆ, Bojan LAZAREVIĆ, Ivana BOGDANOVIĆ, Mirjana ILIĆ

METACOGNITIVE AWARENESS OF SCIENCE ORIENTED STUDENTS IN REPUBLIC OF SERBIA / Pages: 5-8
Dušanka Ž. OBADOVIĆ, Ivana BOGDANOVIĆ, Stanko CVJETIĆANIN, Milica PAVKOVIć

A POSSIBLE MECHANISM FOR ENHANCING THE ADVANCED KNOWLEDGE CONSTRUCTION IN ONLINE LEARNING COMMUNITIES / Pages: 9-12
Sheng-Yi WU

A NEW STEAM AGE: TOWARDS ONE CULTURE FOR LEARNING SCIENCE / Pages: 13-17
Martin BRAUND

THE COMPARISON OF COLLEGE AND UNIVERSITY STUDENTS’ LEARNING STRATEGIES FOR CHEMISTRY COURSES / Pages: 18-21
Tolga GÖK, Özge GÖK

A PRACTICAL DILEMMA: HIGH SCHOOL STUDENTS’ PHYSICS-RELATED PERSONAL EPISTEMOLOGY / Pages: 22-26
Muhammet Mustafa ALPASLAN, Bugrahan YALVAC

LEARNING ABOUT THE BULLWHIP EFFECT USING COLORED PETRI NET SIMULATOR / Pages: 27-35
Dragana MAKAJIĆ-NIKOLIĆ, Biljana PANIĆ, Bisera ANDRIĆ GUŠAVAC, Ivana KOVAČEVIĆ

PRESERVICE SCIENCE TEACHERS’ CONCERNS FOR EDUCATING STUDENTS WITH SPECIAL NEEDS IN THEIR FUTURE CLASSROOMS / Pages: 36-39
Mustafa CANSIZ, Nurcan CANSIZ

THE CHALLENGES FACED BY PRESERVICE SCIENCE TEACHERS DURING TEACHING PRACTICE / Pages: 40-42
Nurcan CANSIZ, Mustafa CANSIZ
DETERMINING AND COMPARING THE PHYSICS ATTITUDE STATE AT A SOCIAL SCIENCE HIGH SCHOOL: AN EXAMPLE OF DENIZLI IBRAHIM CINKAYA SOCIAL SCIENCE HIGH SCHOOL / Pages: 43-48
Ozkan KAHRAMAN

REVIVAL OF DEMONSTRATION EXPERIMENTS IN SCIENCE EDUCATION / Pages: 49-56
Josef TRNA, Eva TRNOVA

A COMPUTER SOFTWARE FOR THE EDUCATION OF COMPLEX NETWORK ANALYSIS / Pages: 57-62
İlker TÜRKER, Alper Talha KARADENİZ, Serhat Orkun TAN

THE ROLE OF TEACHER AND CURRICULUM IN INTERVENTIONS IN DAILY LESSONS / Pages: 63-67
Ok-Kyeong KIM

IMPACT OF ENCRYPTED MULTIPLE CHOICE EXAM ON STUDENT SUCCESS / Pages: 68-73
Mehtap KÖSE ULUKÖK, Zehra BORATAŞ ŞENSOY, Cagin KAZIMOĞLU

PREFERENCE LEARNING STYLE IN MATHEMATICS: STUDENTS PERCEPTION / Pages: 74-80
Sadri ALİJA, Halil SNOPÇE

GENERALIZING REPEATING PATTERNS: A STUDY WITH CHILDREN AGED FOUR / Pages: 81-95
Margarida RODRIGUES, Paula SERRA

7TH GRADE STUDENTS’ PROBLEM SOLVING SUCCESS RATES ON PROPORTIONAL REASONING PROBLEMS / Pages: 96-100
Mustafa Serkan PELEN, Perihan DİNÇ ARTUT

THE EFFECTS OF STUDENTS' ATTENDANCE IN THE SUCCESS OF UNDERGRADUATE MATHEMATICAL COURSES- THE CASE OF THE SEE-UNIVERSITY / Pages: 101-106
Halil SNOPCE, Sadri ALİJA

PRESCHOOLERS LEARN PROPORTIONALITY AND INTEGRATION THROUGH ICON-COUNTING AND NEXT-TO ADDITION / Pages: 107-117
Allan TARP

TECHNOLOGY EDUCATION IN FINLAND – CRAFT, CREATIVITY, TEXTBOOKS OR TECHNOLOGY / Pages: 118-122
Ossi AUTIO

A SURVEY OF STUDENTS PARTICIPATING IN A COMPUTER-ASSISTED EDUCATION PROGRAMME / Pages: 123-131
Elif BİNBOĞA YEL, Orhan KORHAN

USING COMPLEXITY THEORY TO CONSTRUCT A DIGITAL LEARNING ENVIRONMENT FACILITATING EXPERIENTIAL LIFE EDUCATION PROGRAMS ON ELEMENTARY SCHOOL TEACHERS AND STUDENTS / Pages: 132-138
I-Tsun CHIANG, Hsiu-Chi FU, Shang-Ti CHEN, Hsin-Chih WU, Sheng-Hung TSAI, Mao LIU
AUTOMATIC EXAM ATTENDANCE SYSTEM BASED ON ILLUMINATION INVARIANT FACE RECOGNITION / Pages: 139-143
Burçin ÖZMEN, Kamil YURTKAN

HIGHER EDUCATION OF INDIA: INNOVATIONS AND CHALLENGES / Pages: 144-152
Rajnalkar LAXMAN, Anil Kumar HAGARGI

THE EFFECTS OF USING SOMATOSENSORY VIDEOGAMES TO PROMOTE "LIFE-EFFECTIVENESS" OF CHILDREN IN ELEMENTARY SCHOOLS / Pages: 153-158
I-Tsun CHIANG, Hsin-Chih WU, Shiang-Ti CHEN, Shiou-Ru CHEN, Sheng-Hung TSAI, Hsiu-Chi FU

POSSIBILITY OF USING SOMATOSENSORY VIDEOGAMES TO PROMOTE ZERO HOUR PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS IN TAIWAN: A QUALITATIVE PERSPECTIVE / Pages: 159-164
I-Tsun CHIANG, Hsiu-Chi FU, Shiang-Ti CHEN, Sheng-Hung TSAI, Mao LIU, Hsin-Chih WU

PERCEPTIONS OF PEDAGOGICAL AFFORDANCE OF SMART MOBILE TECHNOLOGY / Pages: 165-172
Khitam SHRAİM, Helen CROMPTON

THE POSITIVE AND NEGATIVE EFFECTS OF DIGITAL TECHNOLOGIES ON STUDENTS’ LEARNING / Pages: 173-177
Tolga GÖK

A LEARNING STYLE INFERENCY SYSTEM BASED ON FUZZY LOGIC TECHNIQUE AND HONEY&MUMFORD’S LEARNING MODEL / Pages: 178-184
Kadriye Filiz BALBAL, Naciye MULAYIM, Ali OZDEMIR, Aysegul ALAYBEYOGLU

FUZZY LOGIC BASED GREGORC LEARNING SYSTEM / Pages: 185-191
Vildan CINARLI, Naciye MULAYIM, Ali OZDEMIR, Aysegul ALAYBEYOGLU

AN M-LEARNING TOOL FOR PRE-SCHOOL KIDS / Pages: 192-197
Mustafa TARIM, Celal ÖZTÜRK, Gülcin YÜKLÜ

EDULABS – THE AGIRE PROJECT: OBJECTIVES, MONITORING AND EXPECTATIONS / Pages: 198-209
Lúcia POMBO, Vânia CARLOS, Maria João LOUREIRO

E-LEARNING TOOLS: CONCEPTUALISATION OF DOMAIN KNOWLEDGE FOR FUTURE USE IN E-LEARNING CONTEXT / Pages: 210-214
Lina TANKELEVICIENE

AN INVESTIGATION INTO EFFECTS OF DYNAMIC GEOMETRY SOFTWARE (DGS) ON STUDENTS’ THINKING PREFERENCES: SOLVING GEOMETRY PROBLEMS WITH AND WITHOUT DGS / Pages: 215-225
Didem AKYÜZ

IMPROVING THE EFFECTIVENESS OF ELECTROMAGNETIC THEORY EDUCATION BY INCREASING THE LEARNING MOTIVATION / Pages: 226-230
Şule Berna AYAN, Mehmet YÜKSEKKAYA
A SHORT COURSE ON SPECTROSCOPY AND SPECTROPHOTOMETRY TRAINING FOR WORKERS IN INDUSTRY / Pages: 231-237
Mehmet YÜKSEKKAYA, Yener DERYAL, Şule Berna AYAN, Mehmet Ali ÖZER, Mustafa SAYIN

ONLINE LEARNING: CAN VIDEOS ENHANCE LEARNING? / Pages: 238-241
Karim HAJHASHEMI, Neil ANDERSON, Cliff JACKSON, Nerina CALTABIANO

AN EFFICIENT MICROCONTROLLER COURSE WITH AN AFFORDABLE AND EASY TO USE DEVELOPMENT SETUP / Pages: 242-253
Mehmet YÜKSEKKAYA, O. Erdem HABERAL

TASKS AND META-TASKS TO PROMOTE PRODUCTIVE MATHEMATICAL DISCOURSE IN COLLABORATIVE DIGITAL ENVIRONMENTS / Pages: 254-263
Arthur B. POWELL, Muteb M. ALQAHTANI