



Ion ROCEANU
Coordinator

Teodor FRUNZETI Radu JUGUREANU Lucian CIOLAN Cătălin RADU
Editor Editor Editor Editor

LEVERAGING TECHNOLOGY FOR LEARNING

Volume I

eLearning and Software for Education Conference

Bucharest, April 26-27, 2012

Editura Universitară

Director: Vasile Muscalu
Bd. Nicolae Bălcescu no. 27-33,
Bucharest
Phone: +4021-315.32.47

ISSN 2066 – 026X

Further information on all eLearning and Software for Education – eLSE – events can be found at:
www.elseconference.eu

All the papers published in this book were verified for plagiarism using a software provided by Plagiat.pl Sp. z o.o

©This work is subject to copyright. All rights are reserved, whether the whole part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting reproduction on microfilm or in any other way, and storage on databanks. Duplication of this publication or parts thereof is permitted only under the provisions of the Romanian Copyright Law of March 14, 1996 in its current version, and permission for use will always be obtained from “Carol” I National Defence University. Violations are liable for prosecution under the Romanian Copyright Law.

The use of general descriptive names, registered names, trademarks, etc. in this publication does not imply, even in the absence of the specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for the general use.

Administrative & Technical Committee

Daniel BELIGAN, "Carol I" National Defense University, Romania,
Dragos BARBIERU, "Carol I" National Defense University, Romania
Catalin RADU, "Carol I" National Defense University, Romania
Yvonne Alina LEGGA, "Carol I" National Defense University, Romania
George DUMITRESCU, "Carol I" National Defense University, Romania
Mariana BUNEA, "Carol I" National Defense University, Romania
Gabriel DOBRESU, "Carol I" National Defense University, Romania

eLSE 2012

**The 8th International Scientific Conference
eLearning and Software for Education**

LEVERAGING TECHNOLOGY FOR LEARNING

Volume I

Scientific Committee & Reviewers:

Prof. Dr. **Teodor FRUNZETI** – Rector of the “Carol I” National Defence University, Romania
Prof. Dr. **Romita B. IUCU** – Vice -Rector, University of Bucharest, Romania
Prof. Dr. **Ion ROCEANU** – Director of the Advanced Distributed Learning Department, Romania
Dr. **Kristy MURRAY** – Director Advanced Distributed Learning Initiative, U.S.A.
Prof. Dr. **Sara de FREITAS** – Director of Research, Serious Games Institute, Coventry University Technology Park, U.K.
Prof. Dr. **Varujan PAMBUCCIAN** – University of Bucharest, Romania
Associate Prof. Dr. **Robert WISHER** – Naval Postgraduate School Monterey, U.S.A
Prof. Dr. **Alessandro de GLORIA** – University of Genova, Italia
Prof. Dr. **Virgil Daniel POPESCU** – University of Craiova, Romania
Associate Prof. Dr. **Lucian CIOLAN** – University of Bucharest, Romania
Senior Researcher Dr. **Kateryna SYNYTSYA** – International Research and Training Centre for Information Technologies and Systems, Ukraine
Mr. **Joseph CAMACHO** – Program Manager, Joint Knowledge Development and Distribution Capability, U.S.A.
Prof. **Radu JUGUREANU** – eContent Manager of the SIVCO Romania
Prof. Dr. **Valeriu PATRICIU** – Military Technical Academy , Romania
Associate Prof. Dr. **Malinka IVANOVA** – Technical University, Sofia, Bulgaria
Prof. Dr. **Marin VLADA** – University of Bucharest, Romania
Associate Prof. Dr. **Adrian ADĂSCĂLIȚEI** – Technical "Gh. Asachi" University, Iasi, Romania
Mr. **Geir ISAKSEN** – Norwegian Advanced Distributed Learning Partnership Lab, Norway
Dr. **Gokay SURSAL** – Section Head, Joint Advanced Distributed Learning and Simulation, NATO
Associate Prof. Dr. **Veronica ȘTEFAN** – Valahia University of Targoviste, Romania
Associate Prof. Dr. **Maria Magdalena POPESCU** – “Carol I” National Defence University, Romania
M.Sc. **Reto SCHILLIGER** – Head of Training and Advanced Distributed Learning Competence Center, ISN, ETH Zurich
Associate Prof. Dr. **Elena STĂNCULESCU** – University of Bucharest, Romania
Mrs. **Ioana Andreea STĂNESCU** – RDI Project Manager, Advanced Technology Systems, Romania
Mr. **Olimpius ISTRATE** – University of Bucharest, Romania
Associate Prof. Dr. **Gabriela GROSSECK** – University of Timisoara, Romania
Prof. Dr. **Florin POPENȚIU-VLĂDICESCU** – UNESCO Chairholder at University of Oradea, Romania
Dr. **Phil ICE** – Research & Development American Public University System, USA
Associate Prof. Dr. **Anca NEDELICU** – University of Bucharest, Romania
Researcher **Petre BOTNARIUC** – Institute of Educational Sciences, Romania
Lector Dr. **Silvia FAT** – University of Bucharest, Romania
Lector Dr. **Georgeta ION** – University of Bucharest, Romania
Lector Dr. **Anca BORZEA** – University of Bucharest, Romania
Lector Dr. **Cosmina MIRONOV** – University of Bucharest, Romania
Assitant Prof Dr. **Oana MOSOIU** – University of Bucharest, Romania

CONTENTS

1. E-LEARNING TECHNOLOGIES IN SUPPORT OF EPISTEMIC COMPETENCY ..	13
Teodor Frunzeti	
2. FLEXIBILITY AND CREATIVITY IN DESIGNING COURSE NOTES THROUGH VIRTUAL CAMPUS	19
Maria Alexe, Beatrice Almasan	
3. MAPPING THE TERRITORY. E-LEARNING OPTIONS FOR TEACHERS PROFESSIONAL DEVELOPMENT	25
Anca Borzea, Cosmina Mironov, Ioana Hartescu	
4. BUILDING A VIRTUAL COMMUNITY OF PRACTICE - A CASE STUDY ON PARENT COUNSELLORS IN ROMANIAN DISADVANTAGED AREAS	31
Petre Botnariuc, Speranța Țibu	
5. SUPPORTING SCHOOL COUNSELLING INTERVENTIONS THROUGH THE USE OF WEB 2.0 TECHNOLOGIES	38
Petre Botnariuc	
6. PERSONAL BRANDING OF A TEACHER - AN APPROACH INTO E-EDUCATIONAL ENVIRONMENT	44
Raluca - Ecaterina Brandabur	
7. VISUAL LITERACY AND SUFFICIENT CONTEXTUALIZATION ELEMENTS ARE PREREQUISITES FOR EFFECTIVENESS OF WEB-BASED LEARNING OBJECTS AS COGNITIVE TOOLS	50
Maksim Zinakov, Tago Sarapuu	
8. AN INTERDISCIPLINARY MODEL FOR TEACHING THE TOPIC “RECORDING THE CARDIAC AND VASCULAR SOUND”, USING THE INTERACTIVE WHITE BOARD	56
Aneta Buzatu, Daniela Stoica	
9. MOBILE LEARNING - THE NEW APPROACH OF THE ELECTRONIC LEARNING BASED SYSTEMS	62
Gabriel Campeanu	
10. THE IMPORTANCE OF USING THE COMPUTER IN ACQUIRING MATHEMATICAL NOTIONS AT THE PRE-SCHOOL EDUCATION LEVEL	67
Daniela Caprioara	
11. (IN)FORMATIVE ASSESSMENT TECHNIQUES IN BLENDED AND E-LEARNING ENVIRONMENTS	74
Maria - Luiza Caraivan	
12. THE DYNAMICS OF THE TEACHER’S ROLES IN AN ICT LANGUAGE CLASS	78
Yolanda - Mirela Catelly	
13. ICT IN THE LANGUAGE CLASS – THE STUDENT’S PERSPECTIVE	84
Yolanda - Mirela Catelly	

14. NEW WAYS TO PRESENT THE INFORMATION IN THE TEACHING ACTIVITY .	90
Teodora Chicioreanu, Gabriela Carmen Oproiu	
15. THE INTEGRATION OF CONCEPT MAPS IN THE TEACHING ACTIVITY. SWOT ANALYSIS OF THE APPLICATIONS EXISTING ONLINE DEDICATED TO THE ELABORATION OF CONCEPT MAPS	96
Teodora Chicioreanu, Nicoleta Litoiu	
16. E-LEARNING AS THE KEY TOOL IN TODAY’S ROMANIAN HIGHER EDUCATION.....	104
Sebastian Chirimbu, Adrian Barbu	
17. TEACHING E-COMMERCE TERMINOLOGY BY CREATING ELECTRONIC CORPORA	110
Mariana Coancă	
18. FREERICE.COM - FREE EDUCATION BASED ON APPEALING LEVEL-BASED ENGLISH TESTS	116
Mariana Coancă	
19. TEACHING QUALITY, NEW LEARNING TECHNOLOGIES AND THE COMPETENCES DEMANDED ON THE JOB MARKET	122
Venera - Mihaela Cojocariu, Iulia Dămian	
20. STUDY REGARDING THE USE OF COMPUTER IN ADULTS’ EDUCATION	129
Petruta Coman, Liliana Ezechil	
21. DEVELOPING NARRATIVE INTELLIGENCE - KEY DIMENSIONS IN TRAINERS’ TRAINING PROGRAMS	135
Diana Csorba	
22. EDUCATIONAL STRATEGIES FOR TRAINING TEACHERS TO PROMOTE EXCELLENCE	141
Claudia - Maria Cuc	
23. AN OVERVIEW OF QUALITY OF SERVICE APPROACH IN E-LEARNING ENVIRONMENTS	146
Iuliana Dobre	
24. THE IMPACT STUDY OF ETWINNING PROJECTS IN ROMANIA	152
Silvia Fat	
25. LEARNING TASKS AND FEEDBACK IN COMPUTER-ASSISTED EDUCATIONAL SITUATIONS. NEW CHALLENGES FOR TEACHERS AS 21 ST CENTURY PROFESSIONALS	157
Simona Gabureanu, Irina Vasilescu	
26. PROJECTIVE TECHNIQUE – INTRODUCTORY INTERACTIVE PROJECTIVE PSYCHOLOGY SOFTWARE PRODUCED BY AN APPLIED PSYCHOLOGY DEPARTMENT. A CASE STUDY	161
Matei Georgescu	
27. AN EMPIRICAL ANALYSIS OF THE EDUCATIONAL EFFECTS OF SOCIAL MEDIA IN UNIVERSITIES AND COLLEGES	167
Gabriela Grosseck, Carmen Holotescu	
28. NEW WAYS OF LEARNING: SPAPS – A GAME FOR LEARNING MATHEMATICAL STATISTICS	175
Corina Grosu, Marta Grosu	

29. INNOVATIVE FORMS OF COMPULSORY PRE-EXAM TESTS: STUDY OF STUDENTS' ACCEPTANCE	180
Corina Grosu, Marta Grosu	
30. A TRANSVERSAL MEHTOD OF TEACHING USING MOODLE	187
Cosmin Herman, George Vaju, Stefan Poka, Liliana Ursache	
31. USING ICT IN THE EDUCATION PROCESS BY PRE-UNIVERSITY TEACHERS AND PRE-SERVICE TEACHERS - COMPARATIVE STUDY	195
Claudiu Langa	
32. CHARACTERISTICS OF THE ONLINE LEARNING ENVIRONMENT ORGANIZATION. TRADITIONAL AND ELECTRONIC TEACHING	201
Trif Letitia	
33. INFLUENCE OF PROJECT-BASED LEARNING IN INFORMATICS ON THE MENTAL CONDITION OF HIGH-SCHOOL STUDENTS	208
Denis Mainz, Vladimira Lovasová, Martin Magdin	
34. GETTING TO KNOW YOUR STUDENTS WITH FACEBOOK	215
Ana - Maria Marhan, Camelia Mihaela Popa	
35. PROMOTING THE ENTREPRENEURSHIP EDUCATION USING A BLENDED LEARNING APPROACH	220
Catalin Martin	
36. BLENDED-LEARNING - AN EFFECTIVE TOOL FOR THE PROFESSIONAL DEVELOPMENT OF HIGHER EDUCATION TEACHERS	226
Cosmina Mironov, Anca Borzea, Lucian Ciolan	
37. CONTRIBUTION OF THE TERTIARY EDUCATION IN RESEARCH AREA	232
Mihaela Muresan, Emilia Gogu	
38. CYBERGOGY IN THE CONTEXT OF THE AUTOFORMATIVE PARADIGM	240
Mihaela Muresan	
39. THE IMPACT OF ECONOMIC PARADIGMS ON TEACHING BUSINESS ENGLISH	248
Elena Museanu	
40. SCHOOL AND ACADEMIC LEARNING – NEW CONTROVERSIES, NEW HYPOTHESES, NEW RESEARCH DATA	254
Ioan Neacsu	
41. ONLINE PEER COACHING FOR OPTIMIZING THE MANAGEMENT OF TEACHING PRACTICE ACTIVITIES	258
Mihaela - Gabriela Neacsu, Adrian Adascalitei, Georgiana Dumitru	
42. AN EXPERIMENTAL E-COACHING MODEL USED FOR TRAINING STUDENT TEACHERS	263
Mihaela - Gabriela Neacsu, Adrian Adascalitei, Georgiana Dumitru	
43. EDUCATING NET GENERATION STUDENTS: IS “GUTENBERG TEACHING APPROACH” ENOUGH?	270
Anca Nedelcu	
44. TOWARDS EFFECTIVE PRESCHOOL TO PRIMARY SCHOOL TRANSITIONS - RECOGNIZING THE POTENTIAL OF ICT	276
Anca PETRESCU	

45. E-LEARNING ABOUT SELF-CAREER. AN ANALYSIS OF ROMANIAN E-COUNSELLING SERVICES	282
Elena - Ramona Richiteanu - Nastase, Corina Cace, Camelia Stăiculescu	
46. CHANGES IN ADULT INSTRUCTIONAL DESIGN PARADIGM	288
Elena - Ramona Richiteanu - Năstase, Camelia Stăiculescu, Corina Cace	
47. DIGITAL LEARNERS AT THE OPEN UNIVERSITY OF CATALONIA: A SKEPTICAL VIEW OF THE PHENOMENON OF THE NET GENERATION	294
Marc Romero Carbonell, Montse Guitert Catasùs, Albert Sangrà Morer, Mark Bullen	
48. DEVELOPING ASSESSMENT PRACTICES THROUGH THE USE OF BLOGS IN HIGHER EDUCATION: AN INNOVATIVE EXPERIENCE IN THE OPEN UNIVERSITY OF CATALONIA	300
Marc Romero Carbonell, Nati Cabrera Lanzo, Georgeta Ion, Elena Cano	
49. CURRICULAR ORGANIZATION OF PEDAGOGICAL STUDIES PROGRAM FOR TEACHING CAREER IN ROMANIA FROM THE PERSPECTIVE OF USE INFORMATION AND COMMUNICATIONS TECHNOLOGY	306
Laura Șerbănescu	
50. EMOTICONS IN CYBERSPACE FACILITATE COMMUNICATION	312
Ashraf Sheibaniaghdam, Abbas Motamadi, Nahid Arsalani, Ali Mahbud	
51. ONLINE PSYCHOLOGICAL COUNSELING OF THE PREGNANT TEENAGER ...	317
Aurora Simigiu	
52. COMPUTER-MEDIATED SELF-REGULATION OF LEARNING	322
Ionut - Dorin Stanciu, Musata Bocos, Daniel Cosmin Andronache	
53. THE ROLE OF EDUCATIONAL SOFTWARE IN SECONDARY SCHOOL STUDENTS' ACADEMIC PERFORMANCE ENHANCEMENT	330
Ionut - Dorin Stanciu, Musata Bocos, Daniel Cosmin Andronache	
54. MEDICAL TERMINOLOGY ASSISTANCE TO MULTINATIONAL PARTNERS THROUGH M-LEARNING	336
Katheryna Synytsya, Dmytro Martynov, Greta Keremidchieva	
55. DIMENSIONS OF CURRENT EDUCATIONAL SYSTEMS: E-LEARNING WITHIN CONTINUOUS TEACHER TRAINING	344
Liana Tăușan	
56. USING SOCIAL NETWORKING IN EFL CLASSROOM IN HIGHER EDUCATION – A CASE STUDY	350
Hediye Gamze Türkmen	
57. CURRENT ISSUES OF MOTIVATION, ACADEMIC PERFORMANCE AND INTERNET USE- IMPLICATIONS FOR AN EDUCATION OF EXCELLENCE	355
Monica Turturean	
58. COMPARATIVE ANALYSIS OF STUDENTS TRAINING NEEDS REGARDING INTERNET AND ITS EFFECTS	359
Monica Turturean, Ciprian Turturean	
59. WHO'S AFRAID OF UBIQUITY? OPPORTUNITIES AND CHALLENGES OF PROJECT-BASED LEARNING IN SCHOOL CONTEXTS	365
Catalina Ulrich	

60. USING WEBQUESTS IN INITIAL TEACHER TRAINING	371
Rosa - Eva, Valle Flórez, Resines Gordaliza, José A.	
61. TRANSNATIONAL SCHOOL PARTNERSHIPS SUPPORTED BY ICT. BENEFITS FOR LEARNING	377
Simona Velea	
62. INTERNET RESOURCES FOR SPECIAL EDUCATIONAL NEEDS AND INCLUSION .	383
Ecaterina Vrasmas, Traian Vrasmas	
63. E LEARNING PROCESS AND OUTCOMES IN DEVELOPING A EUROPEAN PROFESSIONAL'S NETWORK IN INCLUSIVE EDUCATION	390
Traian Vrasmas, Ecaterina Vrasmas	
64. AN ANALYSIS OF NATIONAL PATTERNS OF LEARNING PLATFORM USE BY STUDENTS IN SCHOOLS AND ACADEMIES	395
Albin Wallace	
65. ONLINE WORKSPACES TO SUPPORT TEACHER COMMUNITIES IN SECONDARY SCHOOLS	408
Wilfried Admiraal, Patricia Brouwer, Marjolein Dobber, Inne Vandyck, Ditte Lockhorst	
66. ADVANCED VIRTUAL FOOTWEAR DESIGN, BY RENDERING SHOE MODELS, INSTEAD OF DRAWING	414
Alex Antemie, Aurel Popp, Florentina Harnagea	
67. BETTER STUDENTS' LEARNING ACHIEVEMENT EVALUATION BY USING DEDICATED FREEWARE E-ASSESSMENT TOOLS	422
Armand Florin Berteau	
68. NEW FEATURES AND ADD-ONS IN POWERPOINT TO CREATE ANIMATIONS THAT STIMULATE LEARNING	428
Armand Florin Berteau	
69. ON-LINE ASSESMENT FOR COMPUTER AIDED DESIGN IN KNITTING	434
Mirela Blaga, Ana Ramona Ciobanu, Dorin Dan	
70. E-LEARNING AND IMMERSIVE LEARNING IN MILITARY EDUCATION	440
Gheorghe Calopareanu	
71. E-CONTENT – LEARNING BY DOING	445
Maria Canter	
72. IMPROVING STUDENT CONCEPTUALISATIONS THROUGH MANIPULATION IN A WEB-BASED LEARNING ENVIRONMENT	449
Jérémy Castéra, Tago Sarapuu, Jaanika Piksööt	
73. WEB 3.0 IN EDUCATION	455
Ana - Maria Chisega - Negrilă	
74. E- LEARNING TOOLS FOR COMPUTER AIDED DESIGN OF KNITTED FABRICS	461
Ana - Ramona Ciobanu, Mirela Blaga	
75. DIGIKIDS: TECHNOLOGY MEDIATED DEVELOPMENT, BEYOND FEAR AND STEREOTYPES	467
Laura - Elena Ciolan	

76. EQUAL CHANCES THROUGH UNEQUAL OPPORTUNITIES: FACILITATING LANGUAGE LEARNING AMONG STUDENTS IN MEDICINE, NURSING AND NUTRITION THROUGH ELEARNING	471
Ioana Crețu, Anca Colibaba	
77. E-TEACHING & E-LEARNING, A MODEL OF E-COURSE DESIGN THROUGH A SYSTEMATIC APPROACH AND OUTCOMES-BASED PLANNING	481
Iuliana Dobre	
78. THE POTENTIAL APPLICATION OF REGION MARKING SOFTWARE TOOL IN MEDICAL DIAGNOSTIC EDUCATION	488
Dinu Dragan, Dragan Ivetic	
79. CHARACTERISTICS OF LEARNING MANAGEMENT SYSTEM (LMS) AND ITS ROLE IN EDUCATION OF ELECTRONICS	495
Milad Forouzesh, Milad Darvish	
80. ONE SIZE FITS ALL? – CULTURAL DIVERSITY REFLECTED IN INSTRUCTIONAL DESIGN MODELS	501
Ioana Hartescu	
81. OBSOLESCENCE AND THE E-LEARNING ELEMENT IN THE CONTEXT OF TEACHING AND ACQUIRING FOREIGN LANGUAGES	507
Mirela Ioniță, Veronica Păstae	
82. EVALUATION OF QUALITY AND EDUCATIONAL METHODS FROM THE POINT OF VIEW OF IMPLEMENTATION AND EXPLOITATION OF INTERACTIVE ANIMATIONS IN E-LEARNING COURSE	515
Martin Magdin, Milan Turčáni	
83. A TRAVELLER’S TALE – CREATING AVATARS FOR THE WORLD OF ELEARNING	521
Alex Mălureanu, Cosmin Mălureanu	
84. FROM LINEAR TO NONLINEAR PHENOMENA THROUGH COMPUTER SIMULATION	526
Nicolae Micescu, Emil Ștefan Barna	
85. DEVELOPING STUDENTS’ VISUAL LITERACY IN A VIRTUAL MODELLING ENVIRONMENT	532
Jaanika Piksööt, Jérémy Castéra	
86. COMPUTERS IN SCHOOL. A CASE STUDY WITH CHILDREN 6 TO 12 YEARS OLD	538
Alina - Elena Pitic, Ioana I. Moisil	
87. IMPLEMENTATION OF INFORMAL E- LEARNING METHODS OF TEACHING AND TEACHING PROCESSES	544
Vitomir Radosavljević, Danka Pevac	
88. LEARNING HOW TO BE A RESPONSIBLE CITIZEN IN THE VIRTUAL ENVIRONMENT	550
Gabriela Sârbu, Corina Cadariu	
89. E-BOOK, MODERN FORM OF DOCUMENT STORAGE AND COMMUNICATION	556
Mihai Serban, Ionica Serban	

90. NEW COMPETENCIES FOR PHYSICAL EDUCATION TEACHERS: SOFTWARE FOR MOVEMENT ANALYSIS	561
Monica Stanescu, Marius Stoicescu	
91. THE QUALITY OF ASSESSING IN THE UNIVERSITY SYSTEM OF LEARNING .	566
Daliana - Ecaterina Tascovici, Robert Gabriel Dragomir, Eliza Consuela Isbășoiu	
INDEX OF AUTHORS	572