

Paper No.	PAPER TITLE AND AUTHOR(S)	Page No.
Section Models & Methodologies		
1	Computing Center of the University of Bucharest, an Important Step in the History of Computer Science in Romania Ion Văduva	23
2	Apps Service for Business, Education, Government - Creating forms and questionnaires using Google Drive Marin Vlada	32
3	Methodological issues for university teaching ontologies development Mihaela Oprea	39
4	On the use of artificial intelligence techniques for students evaluation Mihaela Oprea	46
5	The Use of Geographic Thematic Maps in E-Learning. Exemplification: Bobota Village, Romania Maria Eliza Dulamă	52
6	An Analysis of the Relevance of Some Online Information Sources for E-Learning. Case study: The Geomorphosite „Grădina zmeilor”, Romania Maria Eliza Dulamă	60
7	Implementation Methods of Speech Recognition in e-Learning Daniela Şchiopu	69
8	Using evolutionary computation in air quality knowledge extraction Elia Georgiana Dragomir	75
9	Functional aspects of educational software development's process from the perspective of teachers involvement Burlacu Natalia	82
10	The complexity of interlanguage – a computer assisted analysis Andrei Elena Mihaela, Branişte Ludmila, Căşlaru Mariana-Diana	89
11	A service-oriented perspective for enhancing a digital system design course Octavian Machidon, Florin Sandu	96
12	A Category-Based PageRank Algorithm on Finding Multi-Field Experts in Yahoo Answers Seyed Salim Malakouti, Sadaf Tayefeh Hosseinlou, Amin Omidvar	103
13	The application of Petri Nets in Flexible Manufacturing Systems Florentina Alina Toader	110
14	The Role of Simulation and Real Experiment in Teaching Photovoltaics Nuri Korganci, Cristina Miron, Adrian Dafinei, Stefan Antohe	115
15	EDUWORK-(e)-Learning at Work Stefan Gabriel Kovacs	122
16	Automated development of individual teaching e-tests Tudor Bragaru	129
17	Verbal and Non-verbal Communicationin Game-Based-Learning Maria Magdalena Popescu	136
18	WEB oriented entrepreneurship through business simulation online tools Veronica ŞTEFAN	145
19	How to Motivate Students Learning Instead of Cheating On a Test	152

	Svetoslav Atanasov, Veselina Nedeva, Snejana Dineva	
20	Two Effects of the Digital Textbook Design on the Metacognitive Strategies Elena Railean	159
21	Virtual Learning Environments, Blended Learning and Teacher Intervention Nathalie Ticheler	169
22	Some Issues Regarding the Recognition of Learning Outcomes Yaldiz Süleyman, Andreescu Nicoleta	175
23	Research on teachers' skills in developing online surveys Ioana Magdaş	180
24	Making the best of oral history through flipped classes Ovidiu Petris, Colibaba Anca, Gheorghiu Irina, Colibaba Stefan	187
25	The Issue of Autonomy in Using Computer Information Technologies as a Means of Teaching Music Polozov Sergei	194
26	On Some Specific Features of Using Computer Technologies in Foreign Language Teaching Branişte Ludmila, Polozova Arina	201
27	Online Live Broadcasts in Student Interpreter Training: Advantages and Challenges Corina Silvia Micu, Raluca Sinu	206
28	The role of Modern Educational Technologies for the education of children with S.E.N (Special Educational Needs) Loredana –Adriana Tudorache, Theodora Michel	212
29	Online Cartographic Materials for Geographical Higher Education: Opportunity or Threat? Gabriela Osaci-Costache, Octavian Cocoş, Alina Cocoş	218
30	The Role of University Professors for the Interdisciplinary Education of the Engineers Pehlivanova Margarita, Zlatoeli Ducheva	225
31	Exploring European Union Teachers' Technological Pedagogical Content Knowledge (TPCK) and Educational Use of Web Technologies Mehmet Fatih Barış	232
Section Technologies		
32	Smart surveillance system using Artificial Intelligence Ionuţ Alexandru Budişteanu, Alin Ştefănescu	243
33	An aproach to teaching Machine Tools using Virtual Reality technologies Silviu Butnariu, Florin Gîrbacia, Alexandru Bogdan Şupială	250
34	Developing Blended Learning University Environments Using Moodle – A Case Study Adrian Adăscăliţei, Constantin Cucuș, Ioan Rusu, Ionuţ Nica	258
35	"Effective Informations" Against "Incomplete Informations" Petru-Adrian Istrimschi, Lucian Berechet, Florin Frumos, Liviu George Maha	267
36	Eye movements and gaze detection, mechanisms to analyse the learning level and the perception degree Mihaela Baritz, Dan Gabor, Angela Repanovici	278

37	Software application for biomechanical motion tracking Mihaela Baritz	284
38	Cloud computing healthcare service for optimizes patients virtual monitoring Raluca Maria Aileni, Adrian Iftene	290
39	Providing Alternative Vocabulary Learning Method in Teaching Solar Energy Nuri Korganci, Cristina Miron, Adrian Dafinei, Stefan Antohe	294
40	Data Acquisition Physics Experiments Using LabView Marin Oprea, Cristina Miron	301
41	Tools in Support of Serious Game Reuse Ioana Andreea Stănescu, Antoniu Ștefan, Jannicke Baalsrud Hauge, Theodore Lim, Sylvester Arnab	309
42	A Walkthrough Serious Games Design & Development Antoniu Ștefan, Ioana Andreea Stănescu, Ion Roceanu, Doina Banciu, Carmen Elena Cirnu	314
Section Software Solutions		
43	Overview of the Multi-Objective Refactoring Selection Problem Camelia Chisăliță-Crețu	321
44	Multi-Criteria Strategy-based Refactoring Selection Camelia Chisăliță-Crețu	329
45	The Validation and Efficiency Testing of an Intelligent Tutoring System that Uses Natural Language Processing Technologies Iuliana Dobre	337
46	Self Assessment in the Learning Process of the Object Oriented Programming Liviu Șerbănescu	343
47	The Training of Software Developers on Maintenance Activities for Database Applications Liviu Șerbănescu	348
48	Optimizing a GIS Map For an Archeological Management Web Application Radu Rădescu, Cristina Tudor	355
49	Designing an Application of QR Recognition Techniques on Android Platform Radu Rădescu, Mihai Manolache	363
50	System of monitoring animals from a zoo Doru Anastasiu Popescu, Nicolae Bold	369
51	System of monitoring the irrigation of an agricultural surface Doru Anastasiu Popescu, Nicolae Bold	373
52	Software application for health state monitoring and data modeling for health risk factor evaluation, based on wearable sensors and observer patterns for sensors data tracking Raluca Maria Aileni, Adrian Iftene	379
53	Software application for non-Newtonian fluid flow numerical analyze Raluca Maria Aileni, Alexandra Ene, Carmen Mihai	385
54	New trends in teaching CAG classes Raul Șerban, Oana Andreea Călin	390
55	Enhanced AODV Authentication Mechanism in MANET Luminita Costinela Defța	394

56	Increasing OLSR Protocol Security in Mobile Ad-Hoc Networks Luminita Costinela Defta	401
57	Information Security for Web and SQL Services Nicoleta Magdalena Iacob	408
58	Concurrency problems in distributed databases Nicoleta Magdalena Iacob	413
59	An educational simulation tool to explore consumer behaviour in tourism Allegra Mario, Dal Grande Valentina, Gentile Manuel, La Guardia Dario, Ottaviano Simona	420
60	Distributed databases system model. Disaster recovery methods Nicoleta Magdalena Iacob	427
61	Designing a Virtual Physics Lab Using Labview Marin Oprea, Cristina Miron	432
62	An Artificial Intelligence Software Application for Solving Job Shop Scheduling Problem Florentina Alina Toader	439
Section Intel® Education		
63	Competitive design of the mechanical structure for a flying robot Steopan Mihai, Precup Sebastian, Ispas Virgil, Popișter Florin	447
64	Using Excel spreadsheets to process data in Physics didactic experiments Ionel Grigore, Cristina Miron, Emil-Stefan Barna	454
65	Understanding of Coupled Oscillators by Building Mathematical and Virtual Models Daly Marciuc, Cristina Miron, Emil Barna	460
66	Using digital tools to develop collaborative problem solving skills Maria Dinica, Luminita Dinescu, Cristina Miron	467
67	Transdisciplinary application in "THE STONE'S SPEECH" Project Georgeta Cozma, Dr. Mihaela Grigorean	472
68	Teachers' Interest in Developing Papers on ICT Topics Liliana Ciascai	478
69	Language-related Factors Leading to the Improvement of the Didactic Communication Luiza Enachi-Vasluianu, Flavia Mălureanu	485
70	A Study on the Effects of Dysfunctions of the Didactic Communication Flavia Mălureanu, Luiza Enachi-Vasluianu	490
71	Offering Individualized Feedback in English for Medical Purposes through Asynchronous Writing Anisoara Pop, James Fenton	495
72	Developing the Informational Activities of Public Service Employees Rogovaya Olga	501
73	Computer Graphics in the Training of State Employees Gerova Natalie, Likhacheva Ekaterina, Rogovaya Olga	506
74	The Interdisciplinarity in the Training of Engineers - A Condition for Solving the Global Problems of the Humanity Pehlivanova Margarita, Zlatoeli Ducheva	513

Authors Index

- Adăscăliței Adrian, 258
Aileni Raluca Maria, 290, 379, 385
Allegra Mario, 420
Andreescu Nicoleta, 180
Andrei Elena Mihaela, 89
Antohe Ștefan, 115, 294
Antoni Ștefan, 309
Arnab Sylvester, 309
Atanasov Svetoslav, 152
Banciu Doina, 314
Baritz Mihaela, 278, 284
Barna Emil, 454, 460
Berechet Lucian, 267
Bold Nicolae, 369, 373
Bragaru Tudor, 129
Braniște Ludmila, 89, 201
Budișteanu Ionuț Alexandru, 243
Burlacu Natalia, 82
Butnariu Silviu, 250
Călin Oana Andreea, 390
Câșlaru Mariana-Diana, 89
Chisăliță-Crețu Camelia, 321, 329
Ciascai Liliana, 478
Cirmu Carmen Elena, 314
Cocoș Alina, 218
Cocoș Octavian, 218
Colibaba Anca, 187
Colibaba Ștefan, 187
Cozma Georgeta, 472
Cucuș Constantin, 258
Dafinei Adrian, 115, 294
Dal Grande Valentina, 420
Defta Luminita Costinela, 394, 401
Dinescu Luminita, 467
Dineva Snejana, 152
Dinica Maria, 467
Dobre Iuliana, 337
Dragomir Elia Georgiana, 75
Ducheva Zlatoeli, 225
Dulamă Maria Eliza, 52, 60
Enachi-Vasluianu Luiza, 485, 490
Ene Alexandra, 385
Fenton James, 495
Frumos Florin, 267
Gabor Dan, 278
Gentile Manuel, 420
Gerova Natalie, 506
Gheorghiu Irina, 187
Gîrbacia Florin, 250
Grigore Ionel, 454
Grigorean Mihaela, 472
Hosseinlou Sadaf Tayefeh, 103
Iacob Nicoleta Magdalena, 408, 413, 427
Iftene Adrian, 290, 379
Ispas Virgil, 447
Istrimschi Petru-Adrian, 267
Jannicke Baalsrud Hauge, 309
Korganci Nuri, 115, 294
Kovacs Ștefan Gabriel, 122
La Guardia Dario, 420
Likhacheva Ekaterina, 506
Lim Theodore, 309
Machidon Octavian, 96
Magdaș Ioana, 180
Maha Liviu George, 267
Malakouti Seyed Salim, 103
Mălureanu Flavia, 485, 490
Manolache Mihai, 363
Marciuc Daly, 460
Mehmet Fatih Bariș, 232
Michel Theodora, 212
Micu Corina Silvia, 206
Mihai Carmen, 385
Miron Cristina, 115, 294, 301, 432, 454, 460, 467
Nedeva Veselina, 152
Nica Ionuț, 258
Omidvar Amin, 103
Oprea Marin, 301
Oprea Marin, 432
Oprea Mihaela, 39, 46
Osaci-Costache Gabriela, 218
Ottaviano Simona, 420
Pehlivanova Margarita, 225, 513
Petris Ovidiu, 187
Polozov Sergei, 194
Polozova Arina, 201
Pop Anisoara, 495
Popescu Doru Anastasiu, 373
Popescu Maria Magdalena, 136
Popișter Florin, 447
Precup Sebastian, 447
Rădescu Radu, 355, 363
Railean Elena, 159
Repanovici Angela, 278
Roceanu Ion, 314
Rogovaya Olga, 501, 506
Rusu Ioan, 258
Sandu Florin, 96
Șchiopu Daniela, 69
Șerban Raul, 390
Șerbănescu Liviu, 343, 348
Șinu Raluca, 206
Stănescu Ioana Andreea, 309, 314
Ștefan Antoniu, 314
Ștefan Veronica, 145
Ștefănescu Alin, 243
Steopan Mihai, 447
Süleyman Yaldiz, 175
Șupială Alexandru Bogdan, 250
Ticheler Nathalie, 169
Toader Florentina Alina, 110, 439
Tudor Cristina, 35
Tudorache Loredana –Adriana, 212
Văduva Ion, 23
Vlada Marin, 32
Zlatoeli Ducheva, 513