

Editors: Prof. Roberto Revetria (Italy), Prof. Antonella Cecchi (Italy),  
Prof. Valeri Mladenov (Bulgaria), Prof. Alexander Zemliak (Belgium)

# NEW HORIZONS IN EDUCATION and EDUCATIONAL TECHNOLOGY

Published by WSEAS Press  
[www.wseas.org](http://www.wseas.org)

PROCEEDINGS OF 6th WSEAS INTERNATIONAL CONFERENCE  
on EDUCATION and EDUCATIONAL TECHNOLOGY (EDU '07)



Electrical and Computer Engineering Series  
A Series of Reference Books and Textbooks

Venice, Italy,  
November 21-23, 2007

ISBN: 978-960-6766-16-9

ISSN: 1790-5117



**NEW HORIZONS IN EDUCATION and  
EDUCATIONAL TECHNOLOGY**

**PROCEEDINGS OF 6th WSEAS INTERNATIONAL  
CONFERENCE on EDUCATION and EDUCATIONAL  
TECHNOLOGY (EDU'07)**

**Venice, Italy, November 21-23, 2007**

Published by WSEAS Press  
[www.wseas.org](http://www.wseas.org)

**Copyright © 2007, by WSEAS Press**

All the copyright of the present book belongs to the World Scientific and Engineering Academy and Society Press. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the Editor of World Scientific and Engineering Academy and Society Press.

All papers of the present volume were peer reviewed by two independent reviewers. Acceptance was granted when both reviewers' recommendations were positive.  
See also: <http://www.worldses.org/review/index.html>

**ISSN: 1790-5117**  
**ISBN: 978-960-6766-16-9**



World Scientific and Engineering Academy and Society

**EDITORS:**

Professor Roberto Revetria, Italy  
 Professor Antonella Cecchi, Italy  
 Professor Maurizio Schenone, Italy  
 Professor Valeri Mladenov, Bulgaria  
 Professor Alexander Zemliak, Belgium

**SCIENTIFIC COMMITTEE:**

Asad A. Abidi, USA	Kon Max Wong, Canada
Andreas Antoniou, USA	Kung Yao, USA
Antonio Cantoni, Australia	Martin Vetterli, USA
George Szentirmai, USA	Mati Wax, USA
Michael Peter Kennedy, Ireland	Meir Feder, Israel
Henk Nijmeijer, The Netherlands	Michael C. Wicks, USA
Paresh C. Sen, Canada	Michael D. Zoltowski, USA
Michel Gevers, Belgium	Michael T. Orchard, USA
James S. Thorp, USA	Michael Unser, Switzerland
Armen H. Zemanian, USA	Miguel Angel Lagunas, Spain
Guanrong Chen, Hong Kong	Moeness G. Amin, USA
Edgar Sánchez-Sinencio, USA	Mohamed Najim, France
Yannis P. Tsividis, USA	Neil J. Bershad, USA
A. J. van der Schaft, The Netherlands	P. P. Vaidyanathan, USA
István Nagy, Hungary	Patrick Dewilde, Netherlands
Wasfy B. Mikhael, USA	Peter Willett, USA
M. N. S. Swamy, Canada	Petre Stoica, Sweden
Abbas El Gamal, USA	Phillip A. Regalia, France
Franco Maloberti, Italy	Pierre Duhamel, France
Alan N. Willson Jr., USA	Pierre Moulin, USA
Yoji Kajitani, Japan	Pramod K. Varshney, USA
Mohammed Ismail, USA	Rabab Kreidieh Ward, Canada
Kemin Zhou, USA	Robert M. Gray, USA
Ruey-Wen Liu, USA	Rolf Unbehauen, Germany
Nabil H. Farhat, USA	Ronald W. Schafer, USA
John I. Sewell, UK	Rui J. P. Figueiredo, USA
Chung-Yu Wu, Taiwan	Russell M. Mersereau, USA
Jerry M. Mendel, USA	Shun-Ichi Amari, Japan
James B. Kuo, Taiwan	Simon Haykin, Canada
Magdy A. Bayoumi, USA	Dimos Triantis, GREECE
Bertram E. Shi, Hong Kong	Soo-Chang Pei, China
Irwin W. Sandberg, USA	Soura Dasgupta, USA
M. Omair Ahmad, Canada	Stefan L. Hahn, Poland
N. K. Bose, USA	Steven Kay, USA
Alfred Fettweis, Germany	Takao Hinamoto, Japan
Brockway McMillan, USA	Takashi Matsumoto, Japan
H. J. Orchard, USA	Tapio Saramaki, Finland
Jacob Katzenelson, Israel	Tariq S. Durrani, U.K.
Vincent Poor, USA	Thomas F. Quatieri, USA
Abraham Kandel, USA	Thomas L. Marzetta, USA
Bor-Sen Chen, China	Thomas S. Huang, USA
C. S. George Lee, USA	Thomas W. Parks, USA
Hamid R. Berenji, USA	Uri Shaked, Israel
Jim C. Bezdek, USA	V. John Mathews, USA
Kevin M. Passino, USA	Vladimir Cuperman, USA
Lawrence O. Hall, USA	William A. Pearlman, USA
Ronald R. Yager, USA	Stojan Kravanja, SLOVENIA
Witold Pedrycz, Canada	Richard Wasniowski, UNITED STATES
Agoryaswami J. Paulraj, USA	Kiyoharu Tagawa, JAPAN
Ahmed H. Tewfik, USA	Luis Garcia, SPAIN
Alan V. Oppenheim, USA	Emilio Soria-Olivas, SPAIN
Alfonso Farina, Italy	KyungOh Lee, KOREA

Alfred O. Hero, USA	Carlos M. Travieso, SPAIN
Ali H. Sayed, USA	Antonios Andreatos, GREECE
Anders Lindquist, Sweden	Francisco Aparisi, SPAIN
Arthur B. Baggeroer, USA	Antonio Ravelo, SPAIN
Arye Nehorai, USA	George kliros, GREECE
Benjamin Friedlander, USA	Hans-Dieter Wacker, GERMANY
Bernard C. Levy, USA	Menouer Boubekeur, IRELAND
Bhaskar D. Rao, USA	Karel Slavicek, CZECH REPUBLIC
Boualem Boashash, Australia	Michael Schwarz, GERMANY
Bruce A. Francis, Canada	Diego Ordez, SPAIN
C. Richard Johnson, USA	Andrzej Zak, POLAND
C. Sidney Burrus, USA	Wanwu Guo, AUSTRALIA
Charles M. Rader, USA	Gordana Culjak, AUSTRALIA
Desmond P. Taylor, New Zealand	Chikatoshi Yamada, JAPAN
Donald L. Duttweiler, USA	Nobuoki Mano, JAPAN
Donald W. Tufts, USA	Liang Fang-Shu, CHINA
Douglas L. Jones, USA	Alexander Pisarchik, SPAIN
Earl E. Swartzlander, USA	Athanasios Hatzigaidas, GREECE
Ed F. Depretere, Netherlands	Castor Marino, SPAIN
Edward A. Lee, USA	Miin-Shen Yang, TAIWAN
Ehud Weinstein, Israel	Egils Ginters, LATVIA
Eli Brookner, USA	Alexander Zemliak, MEXICO
Ioannis Pountourakis, GREECE	Vladimir Ryazanov, RUSSIA
Ezio Biglieri, Italy	Salem Benferhat, FRANCE
Wolfgang Fichtner, Switzerland	Aparecido Valdemir de Freitas, BRAZIL
Wu-Sheng Lu, Canada	Pi-Sheng Deng, UNITED STATES
Yaakov Bar-Salom, USA	Hartmut Hillmer, GERMANY
Yingbo Hua, USA	Hrin Gabriela Rodica, ROMANIA
Yong Ching Lim, Singapore	Martin Holena, CZECH REPUBLIC
Zhi Ding, USA	Kresimir Jadronja, SLOVENIA
A. A. Goldenberg, Canada	Sebastian Schaefer, GERMANY
Aggelos K. Katsaggelos, USA	Eetu Niemi, FINLAND
Angel Rodriguez-Vasquez, Spain	I. Etxaniz, SPAIN
Erol Gelenbe, USA	Masoud Mohammadian, AUSTRALIA
F. L. Lewis, USA	Mi-young Kim, KOREA
Harry Wechsler, USA	Saito Hitomi, JAPAN
Howard C. Card, Canada	Tanja Arh, SLOVENIA
Leon O. Chua, USA	Igor Bernik, SLOVENIA
Marco Gori, Italy	Julio Garcia-Barcena, SPAIN
Narasimhan Sundararajan, Singapore	Maya Satratzemi, GREECE
Sankar K. Pal, India	M. Gloria Sanchez-Torrubia, SPAIN
Tamas Roska, USA	Khairurrijal Khairurrijal, INDONESIA
A. Stephen Morse, USA	Chien-I Lee, TAIWAN
Alberto Isidori, USA	Antonin Slaby, CZECH REPUBLIC
Ali Saberi, USA	Dondon Philippe, FRANCE
Andrew R. Teel, USA	Yavuz Erdogan, TURKEY
Antonio Vicino, Italy	Juan Zapata, SPAIN
Anuradha M. Annaswamy, USA	Jelena Mamcenko, LITHUANIA
Benjamin Melamed, USA	Dan Dumitrascu, ROMANIA
Bruce H. Krogh, USA	Norio Ishii, JAPAN
David D. Yao, USA	Sylvia Encheva, NORWAY
Donald Towsley, USA	Andrei Kolyshkin, LATVIA
Eduardo D. Sontag, USA	Frangiskos Topalis, GREECE
Edward J. Davison, Canada	Wolff-Michael Roth, CANADA
G. George Yin, USA	Jose Manuel Correas, SPAIN
Giorgio Picci, Italy	Praxedis Israel Santamara Mata, MEXICO
Graham C. Goodwin, Australia	Javier Bilbao, SPAIN
Han-Fu Chen, China	R.Tejada Castillo, MEXICO
Harold J. Kushner, USA	Seppo Sirkemaa, FINLAND
Hidenori Kimura, Japan	Carmen Torres-Blanc, SPAIN

Ian Postlethwaite, UK	Athina Lazakidou, GREECE
Ian R. Petersen, Australia	Manuela Panoiu, ROMANIA
Jan C. Willems, Netherlands	Ismael Vaz, PORTUGAL
Jim S. Freudenberg, USA	Irina Oleinikova, LATVIA
Karl Johan Astrom, Sweden	Jiri Petrzel, CZECH REPUBLIC
Lennart Ljung, Sweden	Jin B. Kwon, KOREA
M. Vidyasagar, India	M.Fernanda Costa, PORTUGAL
Mark W. Spong, USA	Istvan Harmati, HUNGARY
Matthew R. James, Australia	Bahadtin Ruzgar, TURKEY
Munther A. Dahleh, USA	Marijan Zura, SLOVENIA
P .R. Kumar, USA	Zdenek Kolka, CZH REPUBLIC
Peter E. Caines, Canada	Tasho Tashev, BULGARIA
Pramod P. Khargonekar, USA	Nader Nariman-zadeh, IRAN
Richard T. Middleton, Australia	Ahmad Tobal, EGYPT
Roberto Tempo, Italy	Josef Hynek, CZECH REPUBLIC
Roger W. Brockett, USA	Andrew Jones, UNITED STATES
Shankar Sastry, USA	Massimo Corcione, ITALY
Steven I. Marcus, USA	Jaime Jimenez, SPAIN
T. E. Duncan, USA	Eduard Franti, ROMANIA
Tamer Basar, USA	Rybokas Mindaugas, LITHUANIA
W. M. Wonham, Canada	Hakim Nesreddine, CANADA
Weibo Gong, USA	Mamun bin ibne Reaz, MALAYSIA
Xi-Ren Cao, Hong Kong	Jean-Pierre Gazeau, FRANCE
Yu-Chi Ho, United Kingdom	Zhifang Wei, CHINA
C D'Apice, ITALY	William Teahan, UNITED KINGDOM
Stergios Papadimitriou, GREECE	Isabel Esperito-Santo, PORTUGAL
Yorinori Kishimoto, JAPAN	Amaury Caballero, UNITED STATES
Antonio Serrano, SPAIN	valeri Mladenov, BULGARIA
Arnoat Vecerka, CZECH REPUBLIC	Nikos Bardis, GREECE
Marcelino Martinez-Sober, SPAIN	Ernst Kessler, The NETHERLANDS
Chih-hung Hsu, TAIWAN	Maria Isabel Garcia-Planas, SPAIN
Sebastian Krivograd, SLOVENIA	Domenico Guida, ITALY
Slo-Li Chu, TAIWAN	Klimis Ntalianis, GREECE
Khalid Faraj, ISRAEL	Vasile Gui, ROMANIA
Ioannis Vardiambassis, GREECE	Andris Buikis, LATVIA
France Sevsek, SLOVENIA	Bozidar Sarler, SLOVENIA
Farhad Kolahan, IRAN	Erol Sezer, TURKEY
Juan Jose Pardo, SPAIN	Ioannis Gonos, GREECE
Jarallah Alghamdi, SAUDI ARABIA	Bohumil Sulc, CZECH REPUBLIC
Saulius Minkevicius, LITHUANIA	Urszula Ledzewicz, UNITED STATES
Yannick Le Moullec, DENMARK	Andrzej Ordys, UNITED KINGDOM
Jose Antonio Alvarez Bermejo, SPAIN	Demetrios Kazakos, UNITED STATES
Hua Wang, CHINA	S. Zeghloul, FRANCE
Faye Boudreaux-Bartels, USA	Dalibor Bielek, CZECH REPUBLIC
Georgios B. Giannakis, USA	Bela Lantos, HUNGARY
Gonzalo R. Arce, USA	Lev Tsitlovsky, ISRAEL
H. Vincent Poor, USA	Yue Shihong, CHINA
Hagit Messer, Israel	Arvet Pedas, ESTONIA
Harold S. Stone, USA	Oleg Panfilov, UNITED STATES
Harry L. Van Trees, USA	Yasamn Zandi Mehran, IRAN
Henrique S. Malvar, USA	Khaled Salah, EGYPT
Hsueh-Ming Hang, ROC	Catalin Caeanu, ROMANIA
Jaakko Astola, Finland	Samad Kolahi, NEW ZEALAND
James R. Zeidler, USA	Maria Boile, UNITED STATES
Jan P. Allebach, USA	Roberto Revetria, ITALY
Jitendra K. Tugnait, USA	Francisco J. Velasco, SPAIN
John M. Cioffi, USA	Bogdan Zak, POLAND
John R. Treichler, USA	Farhad Samadzadegan, IRAN
John V. McCanny, United Kingdom	Juan Rabual, SPAIN
Joos Vandewalle, Belgium	Weili Jiao, CHINA

Jose C. Principe, USA Jose M. F. Moura, USA Filippos Vallianatos, GREECE K. J. Ray Liu, USA Kaushik Roy, USA Kenneth Rose, USA Keshab K. Parhi, USA	Lakshmi Vyas, INDIA Ayman H. Nasr, EGYPT Kyekyung Kim, KOREA Jorge Lira, MEXICO Kamaruzaman Jusoff, MALAYSIA Anastasia Giannakoula, GREECE Gennadi Vainikko, ESTONIA
---	--

## Preface

New horizons in Education open today with the usage of advanced computer applications. Advances and new concepts in social sciences (psychology, sociology, philosophy) affect the sector of education resolutely. The important phenomenon of globalization that is the global break of the natural and cultural borders in combination with the availability of knowledge and information for everybody, in every time, at every place changes dramatically the landscape of what we call “teaching” and “education”.

E-tests, E-tutorials, E-examinations, E-courses, E-quizzes etc are only a few of the features of the new age of modern education in visual mode. Exercises can be designed, corrected, examined, complemented, and updated remotely. Developing modern educational software and distance learning tools or designing intelligent robots as teachers or even proposed new classroom monitoring, the scientists and engineers are in front of new challenging problems. Promising applications on the other hand can be based on internet and multimedia in a virtual world where humans can have unlimited access in knowledge and information.

Simultaneously, we need to solve a lot of problems regarding reorganization of laboratories, reforming of studies, rethinking of the role of academic teachers and approaching several technical (but also social) problems of students with disabilities or students who are national minorities in some departments. What is “awards” today? What is or what should be the role of government and the role of non-governmental organizations in higher education? How can we combine modern technological education with environmental sensitivity, and how in a can we respect the cultural heritage of one country in a globalized world? How secure are the online educational systems? What will be the School, or laboratory or University of the future? What will be the role of a teacher in dynamical and continually changing environment?

The book you are currently holding contains the Proceedings of the 6th WSEAS International Conference on **Education and Educational Technology (EDU'07)**, which was held in Venice, Italy, November 21-23, 2007

We would like to thank all members of the organizing laboratories for their contribution to the organization of the conference.

The contents of this Book are also published in the CD-ROM Proceedings of the Conference. Both will be sent to the WSEAS collaborating indices after the conference: [www.worldses.org/indexes](http://www.worldses.org/indexes).

In addition, papers of this book are permanently available to all the scientific community via the WSEAS E-Library.

Expanded and enhanced versions of papers published in these conference proceedings are also going to be considered for possible publication in one of the WSEAS journals that participate in the major International Scientific Indices (Elsevier, Scopus, EI, Compendex, INSPEC, CSA .... see: [www.worldses.org/indexes](http://www.worldses.org/indexes)) these papers must be of high-quality (break-through work) and a new round of a very strict review will

follow. (No additional fee will be required for the publication of the extended version in a journal).

We cordially thank all the people of WSEAS for their efforts to maintain the high scientific level of conferences, proceedings and journals.

The Editors



**Proceedings of the 6th WSEAS International Conference on  
EDUCATION and EDUCATIONAL TECHNOLOGY (EDU'07)  
TABLE OF CONTENTS**

<b>E-SSAF – A Powerful E-Learning Tool for State-Space OA-RC and Gm-C Continuous Time Filter Synthesis</b> <i>Elena Doicaru, Ileana Nicolae, Elvira Popescu</i>	1
<b>A Practical and Integrated Approach for Power Switching Supply Teaching: Example of a Boost Converter Topology</b> <i>P. Dondon, J. M. Micouleau, M. Marthiens Dagorette</i>	7
<b>Analysis of HLM on PISA 2003 based on Networked Readiness Index of Countries and Mathematics Learning of Students</b> <i>Yuan-Hong Lin, Chia-Tai Chang, Hsiao-Fang Lin, Ze-Shine Wu</i>	13
<b>Multilevel Analysis of PISA 2003 with Influence on Achievement from Education Index of Countries and Time Studying of Students</b> <i>Yuan-Hong Lin, Chia-Tai Chang, Hsiao-Fang Lin</i>	19
<b>University Students' Problematic Internet Use in terms of Reasons for Internet Use</b> <i>Esra Ceyhan</i>	25
<b>Supporting Mathematical Communication in Word Problem Solving Through a Cognitive Tool</b> <i>Azlina Ahmad, Siti Salwah Salim, Roziati Zainuddin</i>	30
<b>New Dynamical Methods for the Study of the Euclidean Geometry</b> <i>Anca Iordan, Manuela Panoiu, Caius Panoiu</i>	35
<b>A Comparative Study on Student Perceptions of Face-to-Face Learning and Online Learning</b> <i>Gurhan Can, Mustafa Saglam, Bahadir Eristi, Dilruba Kurum</i>	41
<b>Interactive Web Tutorial for Integer and Modular Arithmetic and its Applications</b> <i>Luis Miguel Carmona Collado, Carmen Escribano Iglesias, Antonio Giraldo Carbajo, Maria Asuncion Sastre Rosa</i>	47
<b>Quality in Distance Education: Perceptions in Private Liberal Arts Universities</b> <i>Maria R. Garcia</i>	52
<b>Experiences of Mathematics Student Teachers in a Series of Science Experiments</b> <i>Emin Aydin, Ali Delice</i>	58
<b>C8051F005 System-on-a-Chip-Based Trainer for Learning Microcontroller System</b> <i>Khairurrijal, Arif Surachman, Asep Suhendi, Heri Permadi</i>	64
<b>Analysis on Types of Mobile Games Played among the IHL Students in Malaysia</b> <i>Hafizullah Amin Hashim, Siti Hafizah Ab Hamid, Mas Idayu Md Sabri</i>	68
<b>Are Remedial courses Effective for Engineering Incoming Students?</b> <i>M. G. Sanchez-Torrubia, R. Martinez-Lopez, E. E. Castineira-Holgado</i>	74
<b>A Study on Teacher Role Expectations among Students at Different School Levels in Taiwan</b> <i>Li-Jung Chen, Chi-Kao Chang, Chin-Mou Cheng</i>	80
<b>Towards Semantic E-Learning Environment for Biological and Environmental Science – a Review</b> <i>Pirjo Kuitunen, Anne Honkaranta, Kalevi Salonen</i>	87
<b>Challenging Industrial Design Students to Foster Sustainable Behaviors</b> <i>Mariano Ramirez Jr.</i>	94

<b>Training Methodologies and Educational Resources in the Field of Integration of Renewable Energy Sources in an Energy Efficient Home</b>	104
<i>Adriana Alexandru, Elena Jitaru, Rayner Mayer</i>	
<b>Using Formative Writing Assignments to Enhance Student Learning in a First Year Chemistry Class</b>	110
<i>Sophie Lavieri, Kathryn Alexander</i>	
<b>Problems in Understanding Abstract Concepts Related to Regular and Context-Free Languages</b>	115
<i>Zeeshan Ali Rana, Muhammad Ashraf Iqbal, Yasser Hashmi</i>	
<b>Turkish University Students' Viewpoint about Internet: A Phenomenological Investigation</b>	122
<i>Yildiz Kurtyilmaz</i>	
<b>Comparison of Turkish Problematic and Non-Problematic Internet Users</b>	128
<i>A. Aykut Ceyhan</i>	
<b>Integration of Information and Communication Technologies into the Education Process: Cooperative Projects via the Internet</b>	133
<i>Nesrin Ozdener, Murat Oztok</i>	
<b>Two Ways of Inverted Pendulum Remote Control</b>	139
<i>Katarina Zakova</i>	
<b>eLearning: Is Time for eTaxonomy?</b>	145
<i>Ivan Pogarcic, Jana Ziljak Vujic</i>	
<b>Improving Learning Processes and Evaluation in Laboratory Classes for Engineering Courses using Online Learning techniques supported by Moodle</b>	152
<i>Paulo Alves Garcia, Jose Sidnei Colombo Martini</i>	
<b>SCORM e-Learning Course and Learning Management System Application and Probe</b>	161
<i>Ting-Sheng Weng, Ming-Hsun Lee</i>	
<b>Network Traffic Monitoring for Improving Reliability and Time Response</b>	169
<i>Dumitru Dan Burdescu, Marian Cristian Mihaescu</i>	
<b>Malaysian Smart School Courseware Usability study: The Effectiveness of Analytical Evaluation Technique Compared to Empirical Study</b>	176
<i>Azizah Jaafar, Hasiah Omar</i>	
<b>Children's Interaction and Expectations in a Social Game Environment</b>	181
<i>Yavuz Inal, Turkan Karakus, Kursat Cagiltay</i>	
<b>Working with Uncertainties in Knowledge Assessment</b>	187
<i>Sylvia Encheva, Sharil Tumin</i>	
<b>M-Learning Support Environment</b>	190
<i>Panagiotis Kalagiakos</i>	
<b>Identifying Predictors of Programming Achievement</b>	195
<i>Yavuz Erdogan, Emin Aydin, Tolga Kabaca</i>	
<b>Evaluating Quality of E-Learning Courses: Investigating on Survey Development</b>	201
<i>S. Campanella, G. Dimauro, A. Ferrante, D. Impedovo, M. G. Lucchese, R. Modugno, G. Pirlo, L. Sarcinella, E. Stasolla, C. A. Trullo</i>	
<b>What Can Multimedia Add to the Optimization of Students' Study Habits?</b>	207
<i>Eva Milkova</i>	

<b>Conceptual Design of L3OP Distributed Database System</b> <i>Siti Hafizah Ab Hamid, Foong-Li Law, Ros Surya Taher</i>	212
<b>Modelling Programme for Education at University of Defence</b> <i>Hana Gavendova, Jiri Barta</i>	218
<b>Interactive Education at the University of Defence</b> <i>Alena Bumbova, Hana Gavendova, Milan Oulehla</i>	223
<b>Learn Typography Using Design Tools</b> <i>Sri Kusumawati Mohd Daud, Hanafizan Hussain, Md Najib Osman, Fauzan Mustaffa</i>	228
<b>Using Mathematics for Data Traffic Modeling within an e-Learning Platform</b> <i>Marian Cristian Mihaescu</i>	231
<b>Building Intelligent Educational Networks</b> <i>Marian Cristian Mihaescu</i>	237
<b>Experimental Research Regarding Structural and Quality Changes Entailed by Contact Break Electrical Erosion (CBEE)</b> <i>Mihail Titu, Viorel Bucur, George Balan</i>	246
<b>Voice Recognition Browser for the Visually Impaired Learners (Mg Sys VISI)</b> <i>Halimah Badioze Zaman, David Kennedy, W. O. Choo, Azlina Ahmad, Aidanismah Yahya</i>	252
<b>Educational Software &amp; Development for People with Special Needs</b> <i>Onintra Poobrasert, Nick Cercone</i>	259
<b>Integration into the Global Educational Process Through the Curriculum Renovation in SSAU</b> <i>Fyodor V. Grechnikov, Vladimir S. Aslanov, Svetlana A. Suchkova</i>	264
<b>LATEX and MS Word Documents and their Presentation in Web Environment</b> <i>Milos Seda, Jindriska Sedova</i>	268
<b>A Study on Information Literacy of Elementary School Teachers</b> <i>Yu-Chen Chiang, Tien-Chin Wang, Ying-Hsiu Chen</i>	274
<b>Use of Computer Technique in Teaching of Optimization</b> <i>Martin Vozar</i>	279
<b>A Conceptual Framework based on Ontologies for Knowledge Management in e-Learning Systems</b> <i>Iulian Pah, Ionela Mocan Maniu, George Maniu, Sergiu Damian</i>	283
<b>ICT and Its Impact upon the Globalization and Accessibility of the Education in the Health Domain</b> <i>Adriana Alexandru, Marilena Ianculescu, Monica Parvan, Elena Jitaru</i>	287
<b>EduCase: Automatic System for the Development of Educational Software</b> <i>Rosa Reis</i>	292

## Authors Index

Ab Hamid, S. H.	68, 212	Grechnikov, F. V.	264	Oulehla, M.	223
Ahmad, A.	30, 252	Hashim, H. A.	68	Ozdener, N.	133
Alexander, K.	110	Hashmi, Y.	115	Oztok, M.	133
Alexandru, A.	104, 287	Honkaranta, A.	87	Pah, I.	283
Ali Rana, Z.	115	Hussain, H.	228	Panoiu, C.	35
Alves Garcia, P.	152	Ianculescu, M.	287	Panoiu, M.	35
Aslanov, V. S.	264	Iglesias, C. E.	47	Parvan, M.	287
Aydin, E.	58, 195	Impedovo, D.	201	Permadi, H.	64
Balan, G.	246	Inal, Y.	181	Pirlo, G.	201
Barta, J.	218	Iordan, A.	35	Pogarcic, I.	145
Bucur, V.	246	Iqbal, M. A.	115	Poobrasert, O.	259
Bumbova, A.	223	Jaafar, A.	176	Popescu, E.	1
Burdescu, D. D.	169	Jitaru, E.	104, 287	Ramirez Jr., M.	94
Cagiltay, K.	181	Kabaca, T.	195	Reis, R.	292
Campanella, S.	201	Kalagiakos, P.	190	Sabri, M. I. M.	68
Can, G.	41	Karakus, T.	181	Saglam, M.	41
Carbajo, A. G.	47	Kennedy, D.	252	Salim, S. S.	30
Castineira-Holgado, E. E.	74	Khairurrijal	64	Salonen, K.	87
Cercone, N.	259	Kuitunen, P.	87	Sanchez-Torrubia, M. G.	74
Ceyhan, E.	25	Kurtyilmaz, Y.	122	Sarcinella, L.	201
Ceyhanm, A. A.	128	Kurum, D.	41	Sastre Rosa, M. A.	47
Chang, C.-K.	80	Lavieri, S.	110	Seda, M.	268
Chang, C.-T.	13, 19	Law, F.-L.	212	Sedova, J.	268
Chen, L.-J.	80	Lee, M.-H.	161	Stasolla, E.	201
Chen, Y.-H.	274	Lin, H.-F.	13, 19	Suchkova, S. A.	264
Cheng, C.-M.	80	Lin, Y.-H.	13, 19	Suhendi, A.	64
Chiang, Y.-C.	274	Lucchese, M. G.	201	Surachman, A.	64
Choo, W. O.	252	Maniu, G.	283	Taher, R. S.	212
Collado, L. M. C.	47	Maniu, I. M.	283	Titu, M.	246
Dagorette, M. M.	7	Martinez-Lopez, R.	74	Trullo, C. A.	201
Damian, S.	283	Martini, J. S. C.	152	Tumin, S.	187
Delice, A.	58	Mayer, R.	104	Vozar, M.	279
Dimauro, G.	201	Micouleau, J. M.	7	Vujic, J. Z.	145
Doicaru, E.	1	Mihaescu, M. C.	169, 231	Wang, T.-C.	274
Dondon, P.	7	Milkova, E.	207	Weng, T.-S.	161
Encheva, S.	187	Modugno, R.	201	Wu, Z.-S.	13
Erdogan, Y.	195	Mohd Daud, S. K.	228	Yahya, A.	252
Eristi, B.	41	Mustafa, F.	228	Zainuddin, R.	30
Ferrante, A.	201	Nicolae, I.	1	Zakova, K.	139
Garcia, M. R.	52	Omar, H.	176	Zaman, H. B.	252
Gavendova, H.	218, 223	Osman, M. N.	228		