

WSEAS Transactions on Advances in Engineering Education

Contents: 2015

Print ISSN: 1790-1979

E-ISSN: 2224-3410

Acceptance Rate (for the years 2013 and 2014): 42.62%

Acceptance Rate = C/D where: C = the number of accepted papers, D= the number of submitted papers. Withdrawn Papers are not considered for the numbers C and D.

Editorial Board:

Editor-in-Chief

Professor Philippe Dondon
ENSEIRB-MATMECA, École Nationale Supérieure d'Électronique
Informatique et Radiocommunications de Bordeaux
1 avenue du Dr Albert Schweitzer, B.P. 99 33402
Talence, Cedex
France
E-mail: Philippe.Dondon@enseirb-matmeca.fr

Associate Editors:

Prof. Giovanni Fulantelli, National Research Council of Italy, Institute for Educational Technologies Palermo, Italy

Prof. Cathy H. Qi, University of New Mexico, Albuquerque, NM, USA

Prof. Sara De Freitas, Coventry University, UK

Prof. Toshio Okamoto, The University of Electro-Communications, UEC & KCG, Japan

Prof. Xiang Bai, Huazhong University of Science and Technology, China

Prof. Konstantinos G. Arvanitis, Agricultural University of Athens, Athens, Greece

Prof. Cornelia Aida Bulucea, University of Craiova, Craiova, Romania

Prof. Alexander Gegov, University of Portsmouth, UK

Prof. Dimos Triantis, Technological Educational Institute of Athens, Greece

Prof. Imre Rudas, Obuda University, Hungary

Topics

Basic Science in Engineering Education Continuing Education & Its Delivery Engineering Education Reforms International Recognition of Qualifications Studies in Engineering and the needs of the Production and Market New Technologies in Education Industry and Education Collaboration Research and Education Globalisation in engineering education. Challenges and problems Management of engineering education. Know-how in engineering education Environment and engineering education Mobility of Scholars European Integration and Engineering Education Computers, Internet, Multimedia in Engineering Education National Technical Chambers and National Societies in Engineering Education International Organizations and Engineering Education New Changes and Challenges in Engineering Education New Changes and Challenges in Teaching in Technical Universities Organization of Laboratories Private Education and State Education Management of Educational Institutes Relations between teachers and students Minorities in Education Foreign Students' problems in Educational Institutes What is the role of retired professors and emeritus professors in Education? Methodologies in examinations and relevant problems Examinations and Tests via Internet Professors' Elections and promotions in the Universities Awards and Education Psychological Aspects Athletics and Social Activities in Higher Education Research and development in Engineering Education Resources and Funds in Engineering Education Technical design of didactical tools Sustainable development education

Articles:

Automatic Learning Path Design: Development and Implementation	8
Authors: Agostino Marengo, Alessandro Pagano, Giulio Monopoli	
Design of Optimal IIR Digital Filter Using Teaching-Learning Based Optimization Technique	18
Authors: Damanpreet Singh, J. S. Dhillon	
Single Quality Model in Software Life Cycle	30
Authors: Rudite Cevere, Sandra Spröge	
Development of an Android Based Game Interfaced with QR Codes for a Gamified Power Management System	41
Authors: Mariano Jesus M. Cayabyab Jr., Maria Rosa T. Santiago, Samuel Matthew G. Dumlao, Rosula S. J. Reyes	
Service Composition Algorithm: Student Assessment & Course Evaluation	51
Authors: Yousra Chtouki, Hamid Harroud, Mohammed Khalidi Idrissi, Samir Bennani	
A New PC-Based Workbench for Virtual Instrumentation and Automatic Control Using Matlab GUI/MEX-C++ Application	62
Authors: Jean Mbihi	

<u>Training Future Engineering Students to Information Literacy: a Challenge for Academic and Professional Success</u>	73
Authors: Amrous N., Bennani S., Daoudi N., Ettaki B.	
<u>Motivation for Maintaining a Constant Workload During a Mathematics Course for Engineers</u>	85
Authors: Lassi Korhonen, Merja Maikkola, Raimo Kaasila	
<u>The “Missing Species” – Female Students in STEM-Fields. A Qualitative Study on Young Austrian Female Students in Gender-Typical Disciplines and STEM-Fields</u>	94
Authors: Barbara Friehs	
<u>Pedagogical Study of Electric Go-Karts: Technological Choices, Instrumentations, Characteristics, Challenge</u>	104
Authors: Arnaud Sivert, Franck Betin, Thierry Lequeu, Francois Maeght	
<u>Optimization of the Mass for a Low-Power Electric Vehicle and Consumption Estimator (E-Bike, E-Velomobile and E-Car)</u>	114
Authors: A. Sivert, F. Betin, B. Vacossin, T. Lequeu, M. Bosson	
<u>New Software Package for Teaching and Learning the Basics of Photovoltaic System Sizing</u>	123
Authors: Sebastien Jacques, Sebastien Bissey	
<u>On Approximations by Polynomial and Trigonometrical Splines of the Fifth Order</u>	136
Authors: I. G. Burova, T. O. Evdokimova	