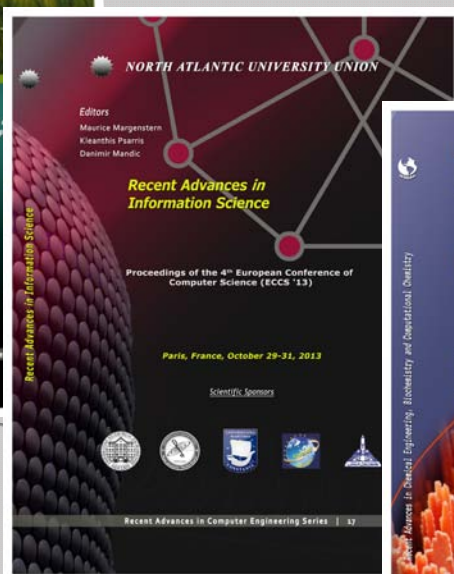
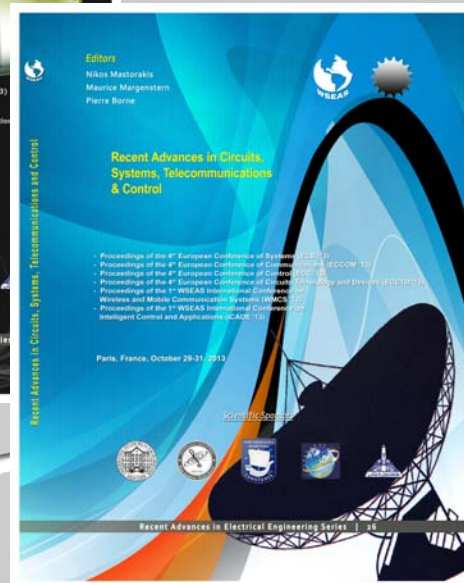
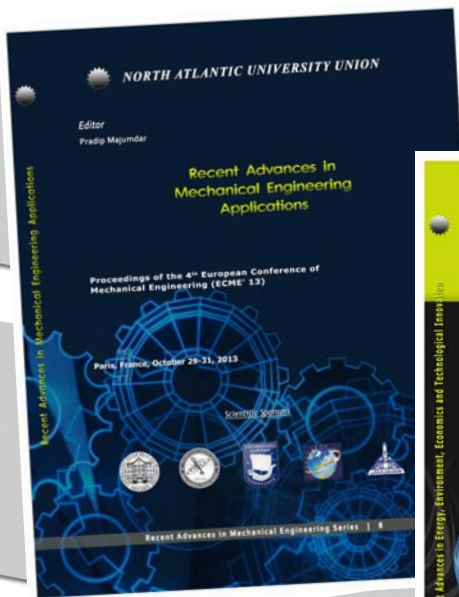


# Conference Program



World Scientific and Engineering Academy and Society



Paris, France  
October 29-31, 2013

**Important Notes:**

- (1) You may register at any time during the conference.
- (2) The Invoice of payment can be collected at the registration desk at any time.
- (3) The Certificate of Participation can be collected at the registration desk only after your presentation.
- (4) Session chairmen can ask for a special Certificate at the registration desk after the session
- (5) The duration of a presentation slot is 20 minutes for a regular paper and 45 minutes for a plenary speech, including questions.
- (6) All authors should give their biographies to the chairmen before the beginning of the session.
- (7) Authors can upload their presentations to the available computers 10 minutes before the beginning of their session.

**7th WSEAS International Conference on Energy Planning, Energy Saving,  
Environmental Education (EPESE '13)**

**4th WSEAS International Conference on Biochemistry and Medical Chemistry  
(BIOMEDCH '13)**

**7th WSEAS International Conference on Computational Chemistry  
(COMPUCHEM '13)**

**1st WSEAS International Conference on Wireless and Mobile Communication  
Systems (WMCS '13)**

**1st WSEAS International Conference on Intelligent Control and Applications  
(ICADE '13)**

**4th International Conference on Development, Energy, Environment, Economics  
(DEEE '13)**

**4th International Conference on Communication and Management in Technological  
Innovation and Academic Globalization (COMATIA '13)**

**4th European Conference of Systems (ECS '13)**

**4th European Conference of Circuits Technology and Devices (ECCTD '13)**

**4th European Conference of Communications (ECCOM '13)**

**4th European Conference of Computer Science (ECCS '13)**

**4th European Conference of Control (ECC '13)**

**4th European Conference of Mechanical Engineering (ECME' 13)**

**4th European Conference of Chemical Engineering (ECCE '13)**

**Paris, France  
October 29-31, 2013**

**Dear colleague,**

**The WSEAS staff welcome you to another prestigious event.**

**Since 1996, the World Scientific and Engineering Academy and Society has proudly organized a vast number of successful conferences and published the work of hundreds of scientists from all over the world. We and our affiliate NAUN and EUROPMENT would like to express our sincere gratitude to you for helping us continue our mission by honoring us with your presence in this conference.**

**WSEAS publications have succeeded in joining most important International Scientific Indexes and Libraries. Thanks to our latest efforts of adopting strict deadlines and a more rigorous review process, the quality of our proceedings and journals is continuing to rise exponentially.**

**We trust that you will enjoy discussing the latest scientific developments with your peers during these three days, and that you will find your stay as pleasant as possible.**

**The WSEAS Team**

Tuesday October 29<sup>th</sup> 2013

Registration: 08:30-09:10

Conference Room: A

Time: 09:10-09:30



**Welcome speech**

by Prof. Philippe Dondon, ENSEIRB, Talence, France

Conference Room: A

Time: 09:30-10:15

Keynote Lecture:



**Constrained Problems in Optimization: The Augmentability Approach**

by Prof. Javier F. Rosenblueth, National Autonomous University of Mexico, MEXICO.

Conference Room: A

Time: 10:15-11:00

Plenary Lecture 1:



**Long-Term Traffic Forecasting in Next Generation Broadband Networks**

by Prof. Pavel Loskot, Swansea University, UNITED KINGDOM.



Tuesday October 29<sup>th</sup> 2013

Conference Room: B

Time: 10:15-11:00

Plenary Lecture 2:



**Simulation of Thermo-Mechanical Effects Induced by Submerged Double-Arc Welding Process in Pipelines**  
by Prof. Elena Scutelnicu, "Dunarea de Jos" University of Galati, ROMANIA.

Conference Room: C

Time: 10:15-11:00

Plenary Lecture 3:



**Nanoparticles as Targeting Delivery Vehicles for Brain Disease Treatment**  
by Prof. Yung-Chih Kuo, National Chung Cheng University, REPUBLIC OF CHINA.

Coffee Break: 11:00-11:30

Conference Room: A

Time: 11:30-12:15

Plenary Lecture 4:



**Impact and Crashworthiness of Composite Structures: Delamination Failure**  
by Prof. Hessam Ghasemnejad, Kingston University, UK.

Tuesday October 29<sup>th</sup> 2013

Conference Room: B

Time: 11:30-12:15

Plenary Lecture 5:



**Stochastic MIMO Channel Modelling Using Split-ANFIS Framework With GA Optimization**  
by Prof. Kandarpa Kumar Sarma, Gauhati University, INDIA.

Conference Room: C

Time: 11:30-12:15

Plenary Lecture 6:



**Diagnosis of Complex Industrial Artificial Social Systems**  
by Assoc. Prof. Calin I. Ciufudean, "Stefan Cel Mare" University of Suceava, ROMANIA.

Conference Room: A

Time: 12:15-13:00

Plenary Lecture 7:



**An Event-Driven Method for Simulating Water Quality in Distribution Systems**  
by Assoc. Prof. Camelia Gavrilă, Technical University of Civil Engineering, ROMANIA.

Tuesday October 29<sup>th</sup> 2013

Conference Room: B

Time: 12:15-13:00

Plenary Lecture 8:



**Design Techniques of Low Power RF IC for Wireless Communication**

by Prof. Ahmed El Oualkadi, Université Abdelmalek Essaadi, MOROCCO.



Tuesday October 29<sup>th</sup> 2013

**Conference Room: A**

**Time: 13:00-15:30**

**Session: Systems Science and Automatic Control**

**Chair: Dumitru Deleanu, Javier F. Rosenblueth**

|   |   |           |
|---|---|-----------|
| Controlling Chaos in Biological Populations with Non-Overlapping Generations  | Dumitru Deleanu, Viorel Fanel Panaitescu  | 70812-109 |
| An Application of 4-Rotor Unmanned Aerial Vehicle: Stabilization Using PID Controller   | Gokhan Gol, Nilgun Fazilet Bayraktar, Emre Kiyak                                | 70812-103 |
| Augmentability for a Constrained Problem in the Calculus of Variations  | Javier F. Rosenblueth   | 70812-118 |
| Optimizing Control of an Improved Single Column Chromatographic Process for the Separation of Enantiomers: Experimental Implementation of an Online Monitoring System | Kazi Monzure Khoda, Bijan Medi, Mohammad Amanullah                              | 70812-124 |
| Zeros Assignment of an Interactor Matrix  | Wataru Kase   | 70812-115 |
| Applying a Statistical Technique for the Discovery of Differentially Expressed Genes in Microarray Data   | Abeer M. Mahmoud, Basma A. Maher, El-Sayed M. El-Horbaty, Abdel-Badeeh M. Salem | 70808-121 |
| System Approach to Art Value in the Auction Market  | Joanna Bialynicka-Birula  | 70808-112 |
| Enterprise Resource Planning Systems – Theory and Practice  | Pasi Ojala  | 70808-109 |

Tuesday October 29<sup>th</sup> 2013

**Conference Room: B**

**Time: 13:00-15:30**

**Session: Wireless and Mobile Communication Systems I**

**Chair: Kandarpa Kumar Sarma, Maja Stella**

|   |  |           |
|---|--|-----------|
| Logistic Map Based Spreading Sequence for Direct Sequence Spread Spectrum Modulation in Multipath Channels          | Deb Sunder Swami, Kandarpa Kumar Sarma             | 70801-112 |
| Planar Leaky-Wave Antenna Arrays for Millimeter Wave Application  | Jury Nechaev, Alexander Klimov, Dmitry Borisov     | 70801-118 |
| Stochastic MIMO Channel Modeling Using Split-ANFIS Framework With GA Optimization                                   | Kandarpa Kumar Sarma                               | 70801-127 |
| GA Based MVDR Beamforming in UWB Wireless Channel   | Madhushree Sharma, Kandarpa Kumar Sarma            | 70801-109 |
| RBF Network Design for WLAN Indoor Positioning  | Maja Stella, Mladen Russo, Matko Šarić             | 70801-130 |
| Validation of New Ionospheric Parameter Modeling  | Maltseva Olga, Zhbankov Gennagij                   | 70801-121 |
| A DPLL Based Approach to Mitigate CCI in Presence of Fading   | Pranjal Gogoi, Kandarpa Kumar Sarma                | 70801-103 |
| Node Pair Selection in MU-MIMO Using Matching Theory - Analysis and Interpretation Based on Stable Marriage Problem | Tetsuki Taniguchi, Yoshio Karasawa, Nobuo Nakajima | 70801-106 |

**Tuesday October 29<sup>th</sup> 2013**

**Conference Room: C**

**Time: 13:00-15:30**

**Session: Power and Energy Systems**

**Chair: Francesco Muzi, Ali Siblini**

|   |   |           |
|---|---|-----------|
| Selectivity and Coordination of Protection Systems for an Effective Smart Grid Reconfiguration                | Francesco Muzi, Zagdkhorol Bayasgalan                                   | 70806-202 |
| Secondary Regulation Now and Future   | Gabriela Ungureanu, Gheorghe Lazaroiu, Emil M. Oanta, Cornel Panait     | 70806-190 |
| Maximum Power Regime at Indicated Minimum Consumption for a Compression Ignition Engine Cycle                 | Ion Omocea, Marian Dordescu, Violeta Ciucur                             | 70806-166 |
| Ocean Waves Hydro-Electric Power Station Using a Gravitational Electrical Generator on Magnetic Fluid Cushion | Nicolae Calin Popa, Ali Siblini, Jean Jacques Rousseau, Nicolae Crainic | 70806-226 |
| Dimensioning of the Operating Reserves in Systems with Wind Power Generation                                  | Oana Udrea, Gheorghe Lazaroiu, Emil M. Oanta, Cornel Panait             | 70806-196 |
| Electrical Parameters in Distribution Network with Electric Vehicle Charger                                   | Peter Janiga, Martin Liška, Dominik Viglaš, Boris Cintula               | 70806-247 |
| Management of Wind Energy in Sustainable Development Process in the Central Dobrogea (Istria Region)          | Simona Ghiță, Andreea Diana Buhociu, Nicoleta Acomi                     | 70806-127 |
| Testing Method of Materials for Enthalpy Wheels   | Tomáš Vít, Petr Novotný, Nguyen Van Vu, Václav Dvořák                   | 70806-229 |
| A Review of the Proposed Large-Scale Energy Storage Applications on the Autonomous Power System of Crete      | Y. A. Katsigiannis, E. S. Karapidakis, A. G. Tsikalakis, A. Katsamaki   | 70806-238 |

**Break: 15:30-16:00**

## Tuesday October 29<sup>th</sup> 2013

**Conference Room: A**

**Time: 16:00-18:00**

**Session: Intelligent Control and Applications**

**Chair: Calin Ciufudean, Alan Yeung**

|   |   |           |
|---|---|-----------|
| Aspects Regarding the Integration of Management Production Systems Based on Lean Manufacturing in Innovative SMEs | Adriana Fota, Mircea Boşcoianu, Calin Ciufudean | 70802-106 |
| Modeling Based on Rough Sets the MIMO Nonlinear Coupled Tanks   | Carlos Pinheiro, Rubiane Oliveira               | 70802-121 |
| A Study on the Suitability of Using Fire Detectors Made by New Technologies                                       | Daniel Popescu, Calin Ciufudean                 | 70802-103 |
| MAC Address Translation Routing Switch  | K. H. Yeung, Vincent Lin, K. Y. Wong            | 70802-127 |
| Image Compression Using Radial Basis Function Networks  | Orest Vascan, Ionel-Bujorel Pavaloiu            | 70802-130 |
| Automatic Parallel Parking of Car-Like Mobile Robots Using Saturation Control and Bang-Bang Control               | Plamen Petrov, Lubomir Dimitrov                 | 70802-115 |
| A Fuzzy Inference System for the Front Steering Control of an Autonomous Mobile Vehicle                           | Wei Liu, Rene V. Mayorga, Mehran Mehrandez      | 70802-124 |

**Conference Room: B**

**Time: 16:00-18:00**

**Session: E-Learning and Web-based Learning I**

**Chair: Danimir Mandic, Dimitar Stoyanov**

|   |  |           |
|---|--|-----------|
| Educational Software and Visualization Arithmetic's Concepts  | Aleksandra Mandic, Danimir Mandic, Marijana Zeljic   | 70811-223 |
| Testing ICT Literacy in ICT Environment   | Andrea Ivanković, Sonja Špiranec, Dražan Miljko      | 70811-271 |
| The Importance of Teachers in Multimedia Literacy Education   | Danijela Unić, Nives Mikelić Preradović, Damir Boras | 70811-265 |
| Impact of Information Operations to Public Knowledge  | Gordan Akrap, Đilda Pečarić                          | 70811-295 |
| Improving the Way of using Online Educational Sources   | Maja Živko   | 70811-175 |
| Information Management in Quality Assurance System at Higher Education Institutions in Croatia      | Tamara Čendo Metzinger, Damir Boras                  | 70811-241 |
| Some Conservation Laws for a Porous Medium Equation through Potential Symmetries with Free Software | Maria Luz Gandarias, Maria Rosa                      | 70811-310 |

## Tuesday October 29<sup>th</sup> 2013

**Conference Room: C**

**Time: 16:00-18:00**

**Session: Applications of Mechanical Engineering**

**Chair: Elena Scutelnicu, Javier Alonso**

|   |   |           |
|---|---|-----------|
| Simulation of Thermo-Mechanical Effects Induced by Submerged Double-Arc Welding Process in Pipelines                        | Elena Scutelnicu                                      | 70813-121 |
| Vibrations of Cracked Plates Resting on Elastic Foundations   | Esta Kago, Jaan Lellep                                | 70813-169 |
| An Automatic Sequential Smoothing Method for Processing Biomechanical Kinematic Signals                                     | F. J. Alonso, F. Romero, D. R. Salgado                | 70813-130 |
| Effects of Gradient Mechanical Properties on Human Visual Accommodation Studied Using Nonlinear Finite Element Method (FEM) | H. Mohammad-Pour, S. Kanapathipillai, F. Manns, A. Ho | 70813-124 |
| Applicability of Constant Amplitude Fatigue Data to Life Predictions under Variable Amplitude Service Loading               | Justin Lindsey, Ali Fatemi                            | 70813-175 |
| Impact Damage Response of Osteoporosis Hip Bone   | O. Razmkhah, H. Ghasemnejad                           | 70813-133 |

**Coffee Break: 18:00-18:30**

**Conference Room: A**

**Time: 18:30-20:00**

**Session: Computers in Biology and Biomedicine**

**Chair: Calin Ciufudean, Danimir Mandic**

|  |  |           |
|--|--|-----------|
| The Impact of Compression in Breast Malignant Tumor Images and an Ad Hoc Compressor Proposal | Ander Larranaga-Cepeda, Jose Juan Garcia-Hernandez, Jose Gabriel Ramirez-Torres, Mario Diego Munoz-Hernandez | 70811-103 |
| FEM Stress Analysis for Molar Teeth  | Dan Nitoi, Catalin Amza, Mihaiela Iliescu, Calin Ciufudean   | 70811-130 |
| Software Tools for the Bioelectrical Impedance Method of Children Selection in Sport         | Dragan Martinovic, Vladan Pelemis, Dragan Brankovic, Vladimir Zivanovic, Momcilo Pelemis                     | 70811-229 |
| Vigilance Monitoring System Using Brain EEG Signal Processing                                | Howida A. Shedeed, Ahmed G. El-Deeb  | 70811-289 |

## Wednesday October 30<sup>th</sup> 2013

**Conference Room: A**

**Time: 09:00-11:00**

**Session: Communication in Innovation and Academic Globalization**

**Chair: Tomas Krabec, Mihaela Hnatiuc**

|  |  |           |
|--|--|-----------|
| Exploring Intercultural Competence through Perceived Social Distance: Business School Students in Croatia        | Iva Sedlic, Masha Magzan   | 70807-139 |
| Readiness of the Marketing Managers to Address and Solve Issues of Current Marketing                             | Martina Jurikova, Olga Juraskova, Leona Tolarová                 | 70807-127 |
| Special Characteristics of the Singles Segment in the Czech Republic and Its Brand Relationships                 | Martina Juříková, Olga Jurášková, Pavla Kotyzová, Josef Kocourek | 70807-130 |
| Telemedicine Based Globalization   | Mihaela Hnatiuc, Cătălin J. Iov                                  | 70807-106 |
| A Note on GARCH(1,1) Estimation via Different Estimation Methods   | Peter Princ, Václav Školuda                                      | 70807-118 |
| Introducing the Financial Brand Impact Adjustor in the VIM Model for Appraising the Brand of an Unlisted Company | Tomáš Krabec, Romana Čížinská                                    | 70807-142 |
| Demonstration of the Use of CGE Model for Comparative Analysis of European Economies                             | Vaclav Skoluda, Peter Princ                                      | 70807-121 |

**Conference Room: B**

**Time: 09:00-11:00**

**Session: Environment and Development I**

**Chair: Diana Robescu, Camelia Gavrila**

|   |  |           |
|---|--|-----------|
| Analysis of Drought Phenomenon Using Remote Sensing Data in Romania   | A. T. Nertan, M. Panaitescu, Gh. Stancalie, A. Irimescu, C. Flueraru, V. Panaitescu                    | 70806-211 |
| Modeling and Simulation of Biological Anaerobic Treatment of Sludge Resulted from Wastewater Treatment                  | Aurel Presură, Lăcrămioara Diana Robescu, Ileana Irina Panaitescu                                      | 70806-205 |
| Reliability Analysis of Water Distribution Systems  | Camelia Gavrila, Andreea Vartires, Ion Gruia, Florinela Ardelean                                       | 70806-187 |
| Determining the Air-Conditioners Placement in Order to Obtain the Indoor Optimum Temperature                            | Catalina Raluca Mocanu, Liviu Constantin Stan, Ileana Irina Panaitescu, Liviu Valentin Balanescu       | 70806-208 |
| Determination of BTX Levels in Ambient air of One Urban Site Located at the Southwest of Mexico City during Spring 2013 | J. G. Ceron-Breton, R. M. Ceron-Breton, M. Rangel-Marron, G. X. Villarreal-Sánchez, A. Y. Uresti-Gómez | 70806-217 |
| Applying DEMATEL Method to the Study on Sustainable Management of Low-Carbon Tourism for Cultural Heritage Conservation | Kuei-Yang Wu, Ming-Jie Zheng, Shih-Chung Lu, Yen-Yu Wu   | 70806-235 |
| About Ecological Technologies Aplicability in Closed and Open Spaces  | Panaitescu Fanel-Viorel, Panaitescu Mariana, Deleanu Dumitru   | 70806-148 |



## Wednesday October 30<sup>th</sup> 2013

**Conference Room: C**

**Time: 09:00-11:00**

**Session: Computational Chemistry, Biochemistry and Chemical Engineering**

**Chair: Chandrasekaran Subramaniam, Arnold Brener**

|   |   |           |
|---|---|-----------|
| Multi-Core Programming for Bio-Reaction Mining Model of Eugenol-Induced Apoptosis with Honey for Cancer Treatment | Chandrasekaran Subramaniam, Manasa Priyamvada, Sriram Suruliandi            | 70804-103 |
| Simulating the Transient Regimes and Concentrate Waves in Through-Reactors with Multi-Stage Kinetics              | M. Yunussov, A. Kalbayeva, S. Kurakbayeva, A. Brener                        | 70805-106 |
| Thermal Conductivity of Organic Liquids: A New Equation   | Di Nicola Giovanni, Ciarrocchi Eleonora, Pierantozzi Mariano, Stryjek Roman | 70814-130 |
| Oxygen Transfer in the Blood  | Jelenka Savkovic-Stevanovic   | 70814-118 |
| Determination of Transport Characteristics of Porous Biocompatible Materials                                      | Karel Soukup, Vladimír Hejtmánek, Olga Šolcová                              | 70814-124 |
| Distribution and Risk Assessment of Polychlorinated Biphenyls (PCBs) in Urban Soils of Sofia City, Bulgaria       | Anna Dimitrova, Yana Stoyanova, Anton Tachev                                | 70814-121 |

**Coffee Break: 11:00-11:30**

**Conference Room: A**

**Time: 11:30-14:00**

**Session: Software Engineering and Software Development**

**Chair: Ivan Grbavac, Moonkun Lee**

|   |   |           |
|---|---|-----------|
| A Hybrid Transfer Method for Transfer Learning  | Bariş Koçer, Ahmet Arslan, Mehmet Hacibeyoğlu, Sait Ali Uymaz | 70811-145 |
| An Approach to the Improvement of Software Development Process with use of Template Generator | Ivan Grbavac, Krešimir Fertalj, Vedran Batoš                  | 70811-304 |
| Using Temporal Database as a Source for Web GIS   | J. Konopásek, O. Gojda, D. Klimešová                          | 70811-136 |
| Social Capital as a Factor of Motivation for Free/libre/open Source Software Development      | Josip Kolarec, Milan Bajic, Petar Jandric                     | 70811-301 |
| An Enhanced Approach for Cases Indexing and Retrieval in Case-Based Reasoning                 | Kareem Mohamed Naguib, Khaled El-Bahnasy, Mostafa Aref        | 70811-205 |
| Pessimistic Prediction-Based Evolutionary Algorithm for Uncertain Optimization Problems       | Kiyoharu Tagawa, Taiki Suenaga                                | 70811-118 |
| Software & Systems Engineerig Interplay and the Semat Kernel                                  | Marcel Jacques Simonette, Edison Spina                        | 70811-328 |
| Modeling and Analysis of Equivalences in Behavior Ontology                                    | Moonkun Lee, Youngbok Choe                                    | 70811-337 |
| Ontologies for Multimedia Annotation: An Overview   | Tomo Sjekavica, Ines Obradović, Gordan Gledec                 | 70811-217 |

Wednesday October 30<sup>th</sup> 2013

**Conference Room: B**

**Time: 11:30-14:00**

**Session: Circuits, Devices and Telecommunications**

**Chair: Ahmed El Oualkadi, Chandrasekaran Subramaniam**

|  |  |           |
|--|--|-----------|
| Performance Analysis: Impact of Signalling Load over IMS Core on KPIs  | Jiri Hosek, Lubos Nagy, Vit Novotny, Pavel Masek, Dominik Kovac                                  | 70810-112 |
| Design of Software Network Traffic Generator   | Petr Zach, Martin Pokorny, Arnost Motycka  | 70810-109 |
| Influence of the TCP Packet Setting and Encryption for Data Transfer in Medical Applications                             | Vladimír Schindler, Aleš Roček   | 70810-121 |
| Straightforward Methodology for Ultra Low Power Design of a RF LNA in 130 nm CMOS Technology                             | Abdellah Idrissi Ouali, Ahmed El Oualkadi, Yassin Laaziz   | 70809-109 |
| Design of Rectangular Ring Patch Antenna for ISM Band at 2.45 GHz  | Ahmed El Oualkadi  | 70809-115 |
| Formal Verification of Safeness, Liveness and Fairness of a Hardware Application Using OpenCL on Graphic Processing Unit | Chandrasekaran Subramaniam, S. Sankarasubramanian, Santosh Srivatsan Srinivasan, C. Siva Shankar | 70809-103 |
| Mathematical Modeling of Timing Attributes of Self-Timed Carry Select Adders   | P. Balasubramanian, C. Jacob Prathap Raj, S. Anandhi, U. Bhavanidevi, N. E. Mastorakis           | 70809-100 |
| Tunable CMOS RF Filter Design for New Generation of Mobile Communications 3GPP LTE                                       | Ahmed El Oualkadi  | 70809-106 |

Wednesday October 30<sup>th</sup> 2013

**Conference Room: C**

**Time: 11:30-14:00**

**Session: Wireless and Mobile Communication Systems II**

**Chair: G. Cerda-Villafana, Mario Reyes-Ayala**

|   |  |           |
|---|--|-----------|
| The Analysis of Delays in the Network for Video and Voice Applications through OPNET Software Package | Adrian Shehu, Astrit Hulaj   | 70801-142 |
| Range vs. Error Probability Relation for Passive Wireless SAW Tags                                    | G. Cerda-Villafana, Y. S. Shmaliy  | 70801-163 |
| Censored Cooperative Spectrum Sensing in Cognitive Radio Network                                      | Israna Hossain Arka, Mahamod Ismail, Ayman A. El-Saleh                       | 70801-148 |
| Pyramidal Horns in Microwave Links  | Mario Reyes-Ayala, Edgar Alejandro Andrade-Gonzalez, Jose Raul Miranda-Tello | 70801-160 |
| Front-End Signal Processing for Speech Recognition  | Milan Ramljak, Maja Stella, Matko Šarić                                      | 70801-133 |
| Crosstalk Estimation in Asymmetrical Printed Circuit Boards Traces Used in Telecommunications Systems | Nassima Tidjani, Jean- Charles Le Bunetel, Ali Ouchar                        | 70801-151 |
| Dynamic Time Delay ANN Topology for Application in Single Band UWB System                             | Parismita Gogoi, Kandarpa Kumar Sarma  | 70801-157 |
| Capacity Analysis of Single-User and Multi-User MIMO with Split MLSE Adaptive Equalization            | Rashmi Sabnuam Gupta, Kandarpa Kumar Sarma                                   | 70801-145 |
| A Method for Port Scanner Detection on a Mobile Network   | Sekwon Kim, Joohyung Oh, Inho Kim, Chaetae Im                                | 70801-136 |

**Break: 14:00-14:30**

## Wednesday October 30<sup>th</sup> 2013

**Conference Room: A**

**Time: 14:30-16:30**

**Session: Advances in Maritime Sciences**

**Chair: Ionut Voicu, Violeta Ciucur**

|   |  |           |
|---|--|-----------|
| Comparative Study on the Spread of Petroleum Products on the Water Surface                                | Ionut Voicu, Fănel Viorel Panaitescu, Nicolae Valeriu Panaitescu, Mariana Panaitescu | 70806-169 |
| A Point of View on Efficiency and Innovation in Refrigeration   | Memet Feiza, Mitu Daniela Elena, Mariana Panaitescu                                  | 70806-121 |
| Consideration on the Efficiency of Natural Frequencies Analysis of an Offshore Subsea Construction Vessel | Mitu Daniela Elena, Memet Feiza, Mariana Panaitescu                                  | 70806-130 |
| The Energy Efficiency Operational Index – An Instrument for the Marine Pollution Control                  | Nicoleta Acomi, Ovidiu Cristian Acomi, Simona Ghiță                                  | 70806-151 |
| Clean LNG Fuel for Black Sea-Danube-Rhine Corridor  | Sagau Mihai  | 70806-199 |
| Applications of GRASP Metaheuristic Algorithm in Solving Cutting and Packing Problems                     | Simona Dinu, Andrei Gabriela   | 70806-178 |
| The Influence of Load on the Operating Mode of the Asynchronous Generator                                 | Violeta Vali Ciucur, Omocea Ion  | 70806-193 |

**Conference Room: B**

**Time: 14:30-16:30**

**Session: Solutions to Contemporary Environmental Problems**

**Chair: Ilona Obrsalova, Jiang Wang**

|   |  |           |
|---|--|-----------|
| Environmental Aspects in Economic Models  | Bohuslav Sekerka, Ilona Obršálová  | 70803-151 |
| Scenarios for the Intentional Release of Cs-137 from Stacks of Cement Production Factory: Event Analysis Using the HotSpot Code | G. Latini, A. Malizia, M. Gelfusa, M. Carestia, R. Fiorito, F. D'amico, A. Gucciardino, C. Bellecci, P. Gaudio | 70803-118 |
| Total Environmental Evaluation of Cleaner Production Technology in Iron and Steel Industry                                      | Jiang Wang, Lijuan Wang  | 70803-169 |
| Research Regarding Using Fossil Fuel Combustion Waste in Building Materials Industry  | Liliana Crăc, Gheorghe Fometescu, Marina Neamțu, Nicolae Giorgi  | 70803-139 |
| Treatment of the Ballast Water Using the Oxidation Method   | Liviu Constantin Stan  | 70803-124 |
| Recent Results on Approximate Optimization Methods for the Unit Commitment Problem  | Luis A. C. Roque, Dalila B. M. M. Fontes, Fernando A. C. C. Fontes   | 70803-145 |
| FBC Ash as a Valuable Raw Material for Aerated Autoclaved Concrete  | Vít Černý, Rostislav Drochytka   | 70803-154 |

## Wednesday October 30<sup>th</sup> 2013

**Conference Room: C**

**Time: 14:30-16:30**

**Session: E-Learning and Web-based Learning II**

**Chair: Vadim Shakhnov, Namje Park**

|  |   |           |
|--|---|-----------|
| Multi-Criteria Decision Making for Selecting the Most Suitable Strategy for the Development of Non-Formal Ways of Learning | Marko Odak, Tjelko Marušić, Nikolaj Lazić           | 70811-283 |
| Contents Access Control Technique for Lower Grades in Elementary School  | Namje Park  | 70811-154 |
| Screencasts as Web-Based Learning Method for Math Students on Upper Primary School   | Radim Špilka, Martina Maněnová                      | 70811-151 |
| Selection of the Multimedia Applications for Learning using FAHP and TOPSIS Methods  | Tomislav Volarić, Emil Brajković, Tomo Sjekavica    | 70811-157 |
| Cognitive Learning Environment for Nanoinformatics   | Vadim Shakhnov, Lyudmila Zinchenko, Elena Rezhikova | 70811-277 |

**Coffee Break: 16:30-17:00**

**Conference Room: A**

**Time: 17:00-19:00**

**Session: Information Science and Applications**

**Chair: Nives Mikelic Preradovic, May Haydar**

|   |   |           |
|---|---|-----------|
| Hybrid-Parallel Iterative Sparse Linear Solvers with the Communication Library GPI  | Dimitar Stoyanov, Franz-Josef Pfreundt                                      | 70811-163 |
| Simulation and Experimental Results of an Asynchronous Machine Fed by a PWM Three-Phase Three-Level Inverter Using DSP Controller | H. Denoun, N. Benyahia, M. Zaouia, N. Benamrouche, S. Haddad, S. Ait Mamar  | 70811-127 |
| Evaluation in Public Relations – Sentiment and Social Media Analysis of Croatia Airlines  | Hrvoje Jakopović, Nives Mikelić Preradović                                  | 70811-268 |
| The Network Map of the Fields of Interest in Information Sciences in Croatia  | Jadranka Lasić-Lazić, Đilda Pečarić, Nikolaj Lazić                          | 70811-316 |
| Event-based State Characterization in Communicating Automata Models for System Verification                                       | May Haydar, Hicham Hallal   | 70811-322 |
| Information System in Accounting in Function of Managerial Decision Making  | Nenad Lalić, Srdjan M. Lalić, Srdjan N. Lalić, Mirko Novaković, Mirko Dejić | 70811-253 |
| Economic Data Classification by Means of Machine Learning Methods   | Pavel Turcinek, Arnost Motycka, Andrea Kosova                               | 70811-115 |
| Tags/s - RFID Reader-Tag Communication Throughput Using Gen2 Q-Algorithm Frame Adaptation Scheme                                  | Petar Solic, Matko Saric, Maja Stella                                       | 70811-178 |
| Implementability Denotation of Distributed Actions with Respect to Communications   | Susumu Yamasaki   | 70811-109 |

## Wednesday October 30<sup>th</sup> 2013

**Conference Room: B**

**Time: 17:00-19:00**

**Session: Environment and Development II**

**Chair: Pedro Correia, Gratiela Branza**

|   |  |           |
|---|--|-----------|
| European Union Initiatives for the Development of Sustainable and High-Quality Tourism in Europe  | Grațelia Brânză  | 70806-163 |
| Comparative Response of Lettuce ( <i>Lactuca sativa</i> ) to Inorganic and Organic Compost Fertilization  | Mario Reis, Luisa Coelho, Jose Beltrao, Irina Domingos, Mario Moura        | 70806-109 |
| Distribution of Zooplankton Populations Entrained by the Nuclear Power Plant Cernavoda Cooling Water System   | Mirela-Iuliana Sundri  | 70806-184 |
| Statistical Calculus of Mud Effectiveness from Techirghiol Lake   | Panaitecu Mariana, Memet Feiza, Mitu Daniela, Panaitecu Ileana-Irina       | 70806-160 |
| Experimental Studies with the Salty Water of Techirghiol Lake   | Panaitecu Mariana, Memet Feiza, Mitu Daniela-Elena, Panaitecu Ileana-Irina | 70806-157 |
| Combined Effects of Nitrogen and Potassium Mineral Fertilization on Bermuda Turfgrass ( <i>Cynodon dactylon</i> L.) Quality, Irrigated with Different Wastewater Levels | Rui Santos, Manuel Costa, Jose Beltrao, Pedro Jose Correia                 | 70806-112 |
| Calculation of Pollution from Relative Indicators   | Bohuslav Sekerka, Ilona Obršálová, Robert Baťa                             | 70806-244 |

**Conference Room: C**

**Time: 17:00-19:00**

**Session: Latest Trends in Chemical Engineering**

**Chair: Cansu Ozhan, Dagmar Merinska**

|  |   |           |
|--|---|-----------|
| Effect of pH on Physical Properties of Edible Films from Faba Bean Protein   | C. Montalvo-Paquini, M. Rangel-Marrón, E. Palou, A. López-Malo                  | 70814-115 |
| A New Multiresolution Model for Catalytic Converter Systems  | Cansu Ozhan, Daniel Fuster, Patrick Da Costa                                    | 70814-127 |
| PE and PP Clay Nanocomposites - Structure Modeling and Properties  | D. Merinska, A. Kalendova, M. Pospisil  | 70814-103 |
| Nanocomposites of Ethylene Vinyl Acetate Copolymer and Clay  | Dagmar Merinska, Alena Kalendova, Zuzana Dujkova, Miroslav Slouf, Josef Simonik | 70814-106 |
| Optimization of the Moisture Content, Thickness, Water Solubility and Water Vapor Permeability of Sodium Alginate Edible Films | M. Rangel-Marrón, C. Montalvo-Paquini, E. Palou, A. López-Malo                  | 70814-112 |

**Conference Banquet: 19:30**



**Thursday October 31<sup>st</sup> 2013**

**Conference Room: A**

**Time: 09:00-11:00**

**Session: Material Science and Marine Engineering**

**Chair: Dumitru Dinu, Stan Liviu-Constantin**

|  |   |           |
|--|---|-----------|
| Properties of Plasters with Lightweight Aggregates   | Dana Koňáková, Monika Čáchová, Eva Vejmelková, Robert Černý                 | 70813-163 |
| Balance of Pressure and Compensating Tightness in Underwater Technologies  | Dumitru Dinu  | 70813-118 |
| Experimental Research on the Characteristics of Nonlinear Roll Hydrodynamic Coefficients of a Composite Trimaran | Haitong Xu, Songlin Yang, Qingwei Ma, Baoming Wang, Tianyu Ma, Yuyang Zong  | 70813-100 |
| Combustion Simulation for the Marine Engines   | Liviu Constantin Stan   | 70813-142 |
| Superficial Corrosion Protection of Steel in Seawater  | Mihaela Barhalescu, Viorel Panaitescu, Cristian Barhalescu                  | 70813-127 |
| Influence of Finely Ground Brick on Hydric Properties of Lime Plasters   | Monika Čáchová, Eva Vejmelková, Dana Koňáková, Martin Keppert, Robert Černý | 70813-166 |

**Conference Room: B**

**Time: 09:00-11:00**

**Session: Business and Economics**

**Chair: Calin Ciufudean, Gratiela Branza**

|   |  |           |
|---|--|-----------|
| VAT and Improving its Performance   | Beáta Blechová, Jana Janoušková, Šárka Sobotovičová  | 70806-220 |
| Economic Aspects of Transport Pricing Policy in European Union  | Gratiela Brânză  | 70806-139 |
| Social Networks – A Modern Form of Online Advertising in the Worldwide Economic Crisis  | Simona Dinu, Madalina Nitoiu   | 70806-145 |
| The Use of DEA Techniques in the Assessment of Intellectual Capital   | Simona Dinu, Madalina Nitoiu   | 70806-154 |
| Emerging Aspects Regarding the Analysis of the Performance of Diversified Portfolios in Emerging Markets - The Case of Bucharest Stock Exchange | Stelian Stancu, Mircea Boşcoianu, Alexandra Maria Constantin, Cristian Bordea, Calin Ciufudean | 70806-142 |

**Coffee Break: 11:00-11:30**

**Thursday October 31<sup>st</sup> 2013**

**Conference Room: A**

**Time: 11:30-14:00**

**Session: Image, Speech and Signal Processing**

**Chair: Doaa Mahmoud A.-Latif, Sanja Seljan**

|  |  |           |
|--|--|-----------|
| Measures of Objects Similarity   | D. Klimešová, J. Konopásek, E. Ocelíková   | 70811-139 |
| Comparison of Optimization Techniques for 3D Graph-based SLAM  | Doaa M. A.-Latif, Mohammed A.-Megeed Salem, H. Ramadan, Mohamed I. Roushdy                               | 70811-181 |
| Study on the Impact of Fingerprints on the Perceptual Transparency in Digital Documents                    | Mario Diego Munoz-Hernandez, Jose Juan Garcia-Hernandez, Miguel Morales-Sandoval, Ander Larranaga-Cepeda | 70811-106 |
| Extraction of Scene Text in HSI Color Space Using K-means Clustering with Chromatic and Intensity Distance | Matko Saric, Maja Stella, Petar Solic  | 70811-172 |
| Process Modeling in Testing and Evaluation of Cartographic Products Usability                              | Pavel Sedlak, Hana Kopackova, Miloslav Hub, Jitka Komarkova  | 70811-340 |
| Effect of Signal Analysis and Discretization on the Classification of EEG Signals                          | Sait Ali Uymaz, Gülay Tezel, Bariş Koçer   | 70811-148 |
| Arabic Text Representation using Rich Semantic Graph: A Case Study   | Sally S. Ismail, Ibrahim F. Moawad, Mostafa Aref   | 70811-214 |
| Automatic Word-Level Evaluation and Error Analysis of Formant Speech Synthesis for Croatian                | Sanja Seljan, Ivan Dunđer  | 70811-199 |
| AIS Inspired Approach for User Identification Based on EEG Signals   | Wael H. Khalifa, Mohamed I. Roushdy, Abdel-Badeeh M. Salem, Kenneth Revett                               | 70811-142 |

**Conference Room: B**

**Time: 11:30-13:30**

**Session: Energy and Environment**

**Chair: Jasim Mohammad, Robert Bata**

|   |   |           |
|---|---|-----------|
| Voltage Sags Evaluating Methods, Power Quality and Voltage Sags Assessment Regarding Voltage Dip Immunity of Equipment                              | Anton Beláň, Martin Liška, Boris Cintula, Žaneta Eleschová      | 70803-160 |
| Impact of N-k Events in Selected Substation Type on the Dynamic Stability of Synchronous Generator  | Boris Cintula, Žaneta Eleschová, Anton Beláň                    | 70803-163 |
| Design and Simulation of a Stand-Alone PV System for a Single Residential Household   | J. Abdulateef, W. Kader, M. Mohammed, Kh. Humood, Badariah Bais | 70803-148 |
| Program for Calculation Parameters of Power Systems during Short-Circuit  | Peter Janiga, Žaneta Eleschová, Dominik Viglaš                  | 70803-166 |
| Estimation of Renewable Energy Sources Potential in the Selected Region as an Instrument of Public Safety in Terms of Availability of Energy Supply | Robert Bata, Barbora Čmolíková                                  | 70803-121 |



**Paris, France**  
**October 29-31, 2013**