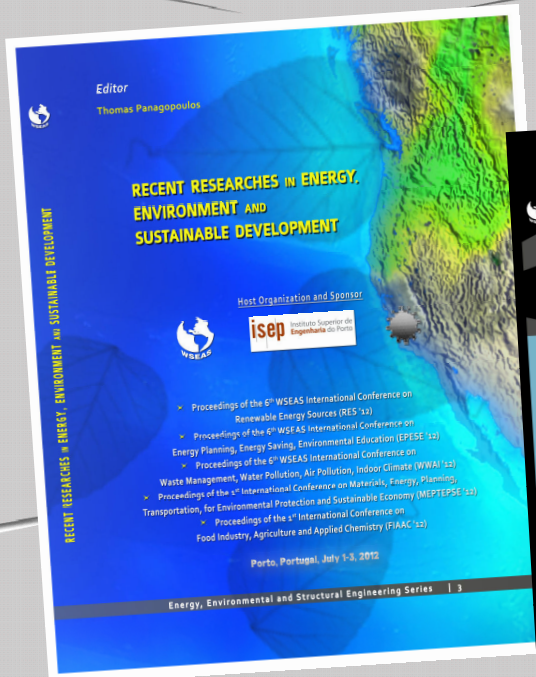
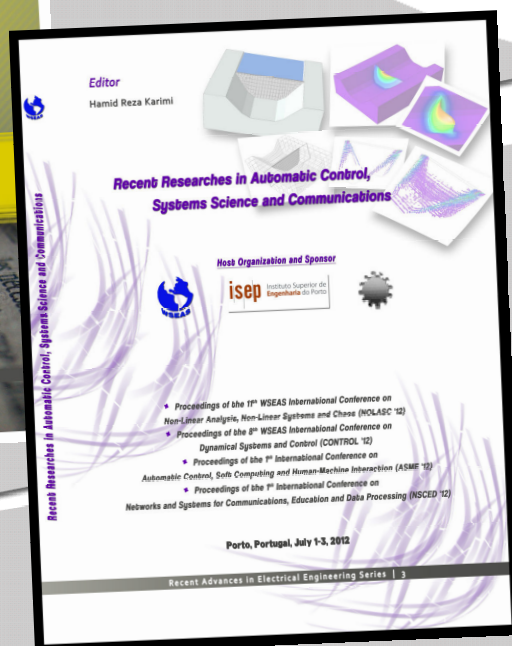


Conference Program



**Porto, Portugal
July 1-3, 2012**

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.

14th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '12)

11th WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC '12)

8th WSEAS International Conference on Educational Technologies (EDUTE '12)

8th WSEAS International Conference on Dynamical Systems and Control (CONTROL '12)

4th WSEAS World Multiconference on Applied Economics, Business and Development (AEBD '12)

6th WSEAS International Conference on Renewable Energy Sources (RES '12)

6th WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education (EPESE '12)

6th WSEAS International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate (WWAI '12)

1st International Conference on Automatic Control, Soft Computing and Human-Machine Interaction (ASME '12)

1st International Conference on Networks and Systems for Communications, Education and Data Processing (NSCED '12)

1st International Conference on Materials, Energy, Planning, Transportation, for Environmental Protection and Sustainable Economy (MEPTEPSE '12)

1st International Conference on Food Industry, Agriculture and Applied Chemistry (FIAAC '12)

**Porto, Portugal
July 1-3, 2012**

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 affiliates NAUN and EUROPEMENT 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

Sunday July 1st 2012

Registration: 08:00-09:00

Conference Room: H202

Time: 09:00-09:45

Keynote Lecture:



Dynamical Stability Control for the Compliant Walking Robots
by Prof. Luige Vladareanu, Romanian Academy, ROMANIA.

Conference Room: H207

Time: 09:00-09:45

Plenary Lecture 1:



Multipoint Boundary Value Problem for Integral-Differential Equations
by Prof. Olga Martin, University "Politehnica" of Bucharest, ROMANIA.

Conference Room: H208

Time: 09:00-09:45

Plenary Lecture 2:



Weak Chaos in the Nonlinear Schroedinger Equation: Why Subdiffusion?
by Dr. Alexander Iomin, Technion - Israel Institute of Technology, ISRAEL.

Sunday July 1st 2012

Conference Room: H202

Time: 09:45-10:30

Plenary Lecture 3:



Solution of direct and inverse problems in eddy current testing

by Prof. Andrei Kolyshkin, Riga Technical University, LATVIA.

Conference Room: H207

Time: 09:45-10:30

Plenary Lecture 4:



Website on English Learning

by Prof. Mirela-Catrinel Voicu, West University of Timisoara, ROMANIA.

Conference Room: H208

Time: 09:45-10:30

Plenary Lecture 5:



The Evolution of Business Intelligence: From Historical Data Mining to Mobile and Location-based Intelligence

by Prof. Zeljko Panian, University of Zagreb, CROATIA.

Coffee Break: 10:30-11:00

Sunday July 1st 2012

Conference Room: H202

Time: 11:00-11:45

Plenary Lecture 6:



Fractional Dynamical Systems

by Prof. J. A. Tenreiro Machado, Institute of Engineering of Polytechnic of Porto, PORTUGAL.

Conference Room: H207

Time: 11:00-11:45

Plenary Lecture 7:



Chaos Emerging in Selection or Election Process due to Simple Iterations – Game of Choosing Model

by Prof. Wlodzimierz Klonowski, Nalecz Institute of Biocybernetics and Biomedical Engineering, POLAND.

Conference Room: H208

Time: 11:00-11:45

Plenary Lecture 8:



Game Based Learning - How Efficient It Might Be?

by Assoc. Prof. Boyan Bontchev, Sofia University, BULGARIA.

Sunday July 1st 2012

Conference Room: H202

Time: 11:45-12:30

Plenary Lecture 9:



Interactive e-Learning Material Helps TO Motivate Learners in a Self-Learning Environment

by Assoc. Prof. Cittoor Girija Navaneethan, Rajalakshmi College of Education, INDIA.

Conference Room: H207

Time: 11:45-12:30

Plenary Lecture 10:



Highly Accurate Bounds for the Eigenvalues of Symmetric Tridiagonal Matrices

by Assoc. Prof. Rui Manuel Silva Ralha, University of Minho, PORTUGAL.

Conference Room: H208

Time: 11:45-12:30

Plenary Lecture 11:



The Analysis of Net Position Development and the Comparison with GDP Development for Selected Countries of European Union

by Assist. Prof. Jaroslav Kovarnik, University of Hradec Kralove, CZECH REPUBLIC.

Sunday July 1st 2012

Conference Room: H202

Time: 12:30-14:30

EDUTE Special Session: Service Learning, E-Learning and Multimedia

Chair: Nives Mikelić Preradović

Service Learning as a Method of University Impact on Public Knowledge. Case Study of University Students Contributions to Wikipedia	Đilda Pečarić	68003-079
International Service Learning Assisting Foreigners in Learning Croatian	Kristina Posavec, Nives Mikelic Preradovic	68003-040
Introduction of a Language Technology System as a Support for Air Traffic Control Communication	Mira Zokić, Damir Boras	68003-088
Social Implications of Service e-Learning in Primary Education	Nives Mikelic Preradovic, Tomislava Lauc, Damir Boras	68003-037
Using Multimedia Resources in an Online Course with Respect to Students' Learning Preferences	Sanja Kišiček, Tomislava Lauc, Ana Garić	68003-031
From Violence to the Shelter – Service Learning Experience in Social Work Education in Croatia	Vendi Keserica, Gordana Berc	68003-085

Conference Room: H207

Time: 12:30-14:30

AEBD Session: Advances in Modern Economics

Chair: Maria do Carmo Neves da Silva, Hana Lostakova

Cross-Cultural Research: Adaptation and Validation of Emotional Development Questionnaire for Adults (QDE_A)	Carmo Neves, Rui Pimenta, Ana Galvão	68005-109
Consulting Services - an Important Part of Providing Customer Value in E-commerce with Pharmaceutical Products: Customer Perspective	Hana Lostakova, Marketa Curdova, Zuzana Pecinova	68005-085
Analysis of Selected Financing the Public Goods by Municipalities	Pavla Kořátková Stránská	68005-009
Estimating CES Aggregate Production Functions of China and India	Yong Wang	68005-045
The Evolution of Business Intelligence: From Historical Data Mining to Mobile and Location-based Intelligence	Zeljko Panian	68005-077

Sunday July 1st 2012

Conference Room: H208

Time: 12:30-14:30

MAMECTIS Session: Mathematical Modelling and Techniques

Chair: Svyatoslav I. Solodushkin, Norazan Mohamed Ramli

Dynamical Systems-based Approach for Simulation and Estimation of Random Processes with Separable Covariance Functions	Hong Son Hoang, Remy Baraille	68001-102
Identifying Bad Leverage Points in Logistic Regression Model Based on Robust Deviance Components	M. R. Norazan, A. Sanizah, M. Habshah	68001-147
Fuzzy Connectivity of Graphical Fuzzy State Space Model of Fuzzy Graph Type 3	Noor Ainy Harish, Tahir Ahmad, Razidah Ismail	68001-242
Identifying Prognosis Factors of Pathological Staging Among Colorectal Patients Using Ordinal Logistic Regression Model	Nor Azura Md Ghani, Khairul Asri Mohd Ghani, Zamalia Mahmud, Nurhasniza Idham Abu Hassan, Norazan Mohamed Ramli	68001-157
Robust Linear Regression Model for Health Related Quality of Life Data	S. Norin Rahayu, M. R. Norazan, M. F. Noor Zafarina, A. H. Azlina, I. Adriana, M. R. Nornadiah, A. Nur Niswah Naslina	68001-197
Numerical Modeling of Evolutionary Systems in Partial Derivatives with Time Delay on a Remote Server	Svyatoslav I. Solodushkin	68001-217

Coffee Break: 14:30-15:00

Conference Room: H202

Time: 15:00-17:30

AEBD Session: Fiscal Policies and Financial Issues in European Countries I

Chair: Jaroslav Kovárník, Katarina Curko

The Quality of Life at Common's Level in Romanian Rural Areas	Cristina Neculai	68005-033
Quality of Life Reflected through the European Rural Development Policy	Cristina Neculai, Gabriel Zamfir, Ionela Sufaru	68005-029
The Analysis of Net Position Development and the Comparison with GDP Development for Selected Countries of European Union	Jaroslav Kovárník	68005-149
Strategic Success Factors in ERP System Implementation	Katarina Curko, Damir Stepanic, Mladen Varga	68005-013
Packaging Replenishment as a Tool of Benefits Creation	Lenka Branska, Zuzana Pecinova, Hana Lostakova	68005-089
Assessment of Cohesion in Selected European Union Countries by Construction of Synthetic Indices of Disparities	Lukáš Melecký	68005-141
Evaluation of Visegrad Countries Efficiency in Comparison with Austria and Germany by Selected Data Envelopment Analysis Models	Michaela Staničková, Karel Skokan	68005-113

Sunday July 1st 2012

Conference Room: H207

Time: 15:00-17:30

ASME-NSCED-NOLASC Session: Simulation and Modelling in Automatic Control

Chair: Anca Croitoru, Włodzimierz Klonowski

Parameter Estimation of Transfer Function of Pilot Behavior Model from Measured Data	Jan Boril, Rudolf Jalovecky	68009-007
Complete Preparation in the Perspective Automated Artillery Fire Support Control System	Martin Blaha, Karel Šilinger	68009-004
Physical Protection Systems and Critical Infrastructure Protection in the Czech Republic	Necesal Lubos, Hromada Martin	68009-013
Totally Boundedness and Compactness on Semilinear Topological Spaces	Gabriela Apreutesei, Anca Croitoru, Nikos E. Mastorakis	68002-013
Influence of Environment on Emerging Chaos in Game of Choosing models	W. Klonowski, M. Pierzchalski	68002-009
Real-Time Environmental Data Collection for Meteo Station Application	Sveatoslav Vizitiu	68010-026
Testing the Effect of Load on Delay and Voice Quality in VoIP Networks	Zuzana Vranova, Antonin Mazalek	68010-046

Conference Room: H208

Time: 15:00-17:30

MAMECTIS Session: Systems Theory, Intelligent Systems

Chair: Benabdellah Yagoubi, Bojan Dolsak

Linear Filtering using a Geometric Approach	B. Yagoubi	68001-097
Intelligent Decision Support in Product Design	Bojan Dolšak	68001-177
Intelligent Recommendation System for e-learning platforms	Bruno Tavares, Luiz Faria, Constantino Martins	68001-287
Aspects of Power Balances Computation for the Antireciprocal Two-Ports	Dan George Tonț	68001-312
A Bayesian-Reliability Based Approach of Multi-Agent System in Dynamic Environments	Gabriela Tonț	68001-307
A Cloud System for Supporting Web Service Integration Based on User Preferences	Keinosuke Matsumoto, Tatsuya Okabe, Naoki Mori	68001-137
Plane Poiseuille Flow of a Polar Fluid through Porous Media	M. T. Kamel, M. H. Hamdan	68001-152
Measuring Match Importance in the Malaysian Super League Based on Win-Lose-Draw Results	N. Abdul Hamid, M. R. Norazan, G. Kendall, N. Mohd-Hussin	68001-172
Multi-Way Reminder System: A Solution Towards Ubiquitous and Effective Communication	Tan Shiang-Yen, Mohd Azam Osman, Genevieve Loo, Shim Sheng Hooi, Abdullah Zawawi Talib	68001-087

Sunday July 1st 2012

Conference Room: H202

Time: 17:30-19:30

EDUTE Session: Distance Learning and Web-based Learning

Chair: Andra Jakobson, Danimir Mandic

Online Experience Based Support System for Small Business Development	Andra Jakobson, Sarma Cakula	68003-091
Informational Technologies in Creating Modern Teaching Aids	Danimir Mandic, Danica Dzinovic, Borislav Samardzic	68003-025
Distance Education in Teacher Training	Danimir Mandic, Nenad Lalic, Dajana Lalic	68003-028
Role and Importance of Presentation Design in Learning and in Quality of Multimedia Learning Material	Maja Gligora Markovic, Ivan Pogarcic, Jasminka Mezak	68003-067
Learning Objects Recommendation in an Adaptive Educational Hypermedia System	Marta Fernandes, Paulo Couto, Constantino Martins, Luiz Faria, Cristina Bastos, Fátima Costa	68003-061
Website on English Learning	Mirela-Catrinel Voicu	68003-034

Monday July 2nd 2012

Conference Room: H202

Time: 09:00-09:45

Plenary Lecture 12:



The Chronicles Paradigm and its Computational Applications
by Prof. Jose Aguilar, Universidad de los Andes, VENEZUELA.

Conference Room: H207

Time: 09:00-09:45

Plenary Lecture 13:



Geometrical Approach of Multidimensional Linear Systems
by Prof. Valeriu Prepelita, University Politehnica of Bucharest,
ROMANIA

Conference Room: H202

Time: 09:45-10:30

Plenary Lecture 14:



**Public Private Partnership Projects in the Context of
Mezzanine Financing in the Conditions of the Czech Republic**
by Assoc. Prof. Libena Tetrevoa, University of Pardubice,
CZECH REPUBLIC.

Monday July 2nd 2012

Conference Room: H207

Time: 09:45-10:30

Plenary Lecture 15:



Optimal Covariance Control Theory in Automotive Suspension Control System Design

by Prof. Sadko Mandzuka, University of Zagreb, CROATIA.

Conference Room: H208

Time: 09:45-10:30

Plenary Lecture 16:



Prospect of Popular Grid-Connected Renewable Power System

by Assoc. Prof. Mohammad Alghoul, Universiti Kebangsaan Malaysia, MALAYSIA.

Coffee Break: 10:30-11:00

Conference Room: H202

Time: 11:00-11:45

Plenary Lecture 17:



Reliability of Fair Value Measurement: Financial Crisis Aftermath

by Prof. Jiri Strouhal, University of Economics Prague, CZECH REPUBLIC.

Monday July 2nd 2012

Conference Room: H207

Time: 11:00-11:45

Plenary Lecture 18:



Methods and Techniques of Speed Control for the Electric Motors

by Prof. Aldo Pardo Garcia, Universidad de Pamplona, COLOMBIA.

Conference Room: H208

Time: 11:00-11:45

Plenary Lecture 19:



Energetic Audit and Efficiency Improvement of Water Pumping Installations Used in Agriculture

by Prof. Anca Constantin, "Ovidius" University of Constanta, ROMANIA.

Conference Room: H202

Time: 11:45-12:30

Plenary Lecture 20:



Cutting Accounting Burden for Small Business – A Romanian Perspective

by Prof. Ramona Neag, „Petru Maior” University, ROMANIA.

Monday July 2nd 2012

Conference Room: H207

Time: 11:45-12:30

Plenary Lecture 21:



**Trace Analysis of Toxic PAHs in Water by Combining SERS
with SERDS**

by Prof. Frank Hubenthal, Universität Kassel, GERMANY.

Conference Room: H208

Time: 11:45-12:30

Plenary Lecture 22:



**Local Traversal in Complex Networks for Identifying
Communities**

by Prof. Narsingh Deo, University of Central Florida, USA.

Monday July 2nd 2012

Conference Room: H202

Time: 12:30-15:00

MAMECTIS Session: Computational Analysis and Algorithms

Chair: Matanat Mehrabova, Damjan Vlaj

The Simple Algorithm of Abiyev's Balanced Cubes of Odd Order	Asker Ali Abiyev, Aghajan Abiyev, Azer Abiyev	68001-127
Efficient Non-linear Changed Mel-Filter Bank VAD Algorithm	Damjan Vlaj, Zdravko Kačič, Marko Kos	68001-192
Algorithm for Generating Discrete Infinite-Valued Random Variables with a Given Rational Generating Function	Efraim Shmerling	68001-297
Reflective Middleware for Automatic Management of Service-Oriented Applications using the Theory of Signatures of Failure	Juan Vizcarrondo, José Aguilar, Ernesto Exposito	68001-262
Algorithm based on the Ant Colony Optimization for the DNA Motif Fusion	Junior Altamiranda, Jose Aguilar, Rafael Torres, Christian Delamarche	68001-257
Formalization of Emergent Properties in Computing Agent Networks	Nelson Fernández, Jose Aguilar, Oswaldo Teran	68001-267
Multipoint Boundary Problems for Integral - Differential Equations Solved by Homotopy Perturbation Method	Nikos Mastorakis, Olga Martin	68001-167
Tree Alignment Algorithm based on Extended Triplets	Wan Mohd Nazmee Wan Zainon, Abdullah Zawawi Talib, Bahari Belaton	68001-082

Monday July 2nd 2012

Conference Room: H207

Time: 12:30-15:00

RES Session: Renewable Energy Sources

Chair: Azami Zaharim, Alamta Singarimbun

Mathematical Modeling for the Drying Curves of Seaweed Gracilaria cangii using a Hot Air Drying	Ahmad Fudholi, Mohd Hafidz Ruslan, Mohd Yusof Othman, M. A. Alghoul, Azami Zaharim, Kamaruzzaman Sopian	68006-022
Estimation of Parameters Distribution in Geothermal Reservoir Using Finite Difference Method	Alamta Singarimbun, Mitra Djamal, Septian Setyoko	68006-016
Experimental Study of a Down-Draught Fixed Bed Gasifier	Daniela Tasma, Tănase Panait, Jorge Martins, Krisztina Uzuneanu, Cătălin Mocanu	68006-034
Study of the Drying Kinetics of Baccaurea angulata Merr. (Belimbing Dayak) Fruit	Dayang Fredalina Basri, Ahmad Fudholi, Mohd Hafidz Ruslan, M. A. Alghoul	68006-031
Techno-Economical Study of Hybrid Power System for a Remote Village in Greece	J. G. Fantidis, D. V. Bandekas, N. Vordos	68006-019
Drying Kinetics of Chilli Pepper in a force Convection Indirect Solar Drying	M. I. Fadhel, S. Shaunmuganathan, M. A. Alghoul, Malek Ali, K. Sopian, A. Zaharim	68006-028
Developments of Al-12Si Alloys by Reinforcing TiN Particles	Malek Ali, Ali Samer Muhsan, M. I. Fadhel, M. A. Alghoul, K. Sopian, A. Zaharim	68006-025
Modeling of Tunnel Junction of Multi-junction Solar Cell	Muhammad Babar, Syed Q. Ali, Essam A. Al-Ammar	68006-004

Conference Room: H208

Time: 12:30-15:00

AEBD Session: Value Determining and Optimization

Chair: Jiri Strouhal, Jan Stejskal

Application of Flexible Business Model for Company Valuation	Eva Kramna	68005-145
The Relationship between Internet Usage and Gross National Income of an Emerging Economy	Fennee Chong, Venus Khim-Sen Liew, Rosita Suhaimi	68005-001
Determinants of Value Relevance of Accounting Information: Comparative Analysis for Listed Companies from South East Europe	Ivica Pervan, Marijana Bartulović	68005-097
Public Services Value Determining – Case of Public Libraries	Jan Stejskal, Pavla Kotatkova Stranska, Katerina Matatková, Petr Hajek	68005-093
Fair Value Debate	Jiří Strouhal, Carmen Bonaci, Razvan Mustata	68005-061
Reasoning Disqualification of Financial Rehabilitation: Current Practices in Insolvency Process	Luboš Smrčka, Jiří Strouhal, Jaroslav Schönfeld	68005-057
Optimizing of the Capital Structure of the Concrete Firm in the Theory and Practice of the Temporary Corporate Finance	Milan Hrdý, Petr Marek	68005-049

Monday July 2nd 2012

Coffee Break: 15:00-15:30

Conference Room: H202

Time: 15:30-17:30

AEBD Session: Business Strategies and Financial Planning

Chair: Ramona Neag, Lourdes Cauzo Bottala

The Equity Markets and the Flows Generated by Currency Carry Trades	Alexandru Constantinescu, Darie Moldovan, Mircea Moca	68005-129
Bank Performance Assessment: State of the Art and Perspectives	Anca Munteanu, Ramona Neag, Petre Brezeanu	68005-121
Analysis of the Key TQM Factors in the EFQM Model and their Relation to Key Business Results	Arturo Calvo-Mora Schmidt, Lourdes Cauzo Bottala, Araceli Picón Berjoyo, Carolina Ruiz Moreno	68005-017
Empirical Study of Consumer Buying Patterns in Latvian Shopping Centers	Elita Paromova, Inguna Sermole, Marcis Esmits, Andrei Kolyshkin	68005-065
Corporate Brand Identity Management in a Technological Faculty – How Brand Relationships Influence Students and Companies' Reputations	Teresa Barros, F. Vitorino Martins, Hortênsia Gouveia Barandas	68005-133

Conference Room: H207

Time: 15:30-17:30

WWAI-MEPTPESE-FIAAC Session: Environment, Agriculture and Development

Chair: Eugenia Eftimie Totu, Michalis Menicou

Ion-Selective Polymeric Membranes for Chemical Sensors. I.	Eugenia Eftimie Totu, Catalina Spatarelu, Alexandra Maier	68012-016
Engineering Challenges for Sustainable Coastal Cage Aquaculture	Michalis Menicou, Vasos Vassiliou, Marios Charalambides, Igor Tsukrov, Judson Decew	68012-010
Climate Change and Lessepsian Migration: An Example from the Fish Fauna of Cyprus	Niki Chartosia, Michalis Menicou	68012-013
Improving Collagenase Production from Immobilized <i>Aspergillus</i> sp.	Raushan K. Blieva, Zhanara B. Suleimenova	68012-007
Mathematical Modeling of a Molten Carbonate Fuel Cell for CO ₂ Separation	Jarosław Milewski, Janusz Lewandowski	68011-005
Influence of γ -Irradiation on Crystal Structure of Pb _{1-x} Mn _x Se Thin Films	M. A. Mehrabova, I. R. Nuriyev	68011-001
IAQ as a Function of Air Exchange Rate	Jurgis Zemits, Anatolijs Borodinecs	68008-021

Monday July 2nd 2012

Conference Room: H208

Time: 15:30-17:30

EPESE Session: Energy Planning and Saving

Chair: Amaryllis Audenaert, Anca Constantin

Energy Saving Measures in Office Buildings: A Cost-Benefit Model	Amaryllis Audenaert, Vanessa Timmerman	68007-001
Energetic Efficiency Analysis of Water Pumping Installations	Anca Constantin, Claudiu Stefan Nitescu, Madalina Stanescu	68007-031
Energetic Efficiency of the Compensation Chamber Used in Hydropower Plants with Long Adduction System	Claudiu Stefan Nitescu, Anca Constantin, Mădălina Stănescu	68007-036
Energy Efficiency Analysis in Water Supply Networks	Mădălina Stănescu, Anca Constantin, Claudiu Nițescu	68007-041
Modeling Vehicle Fuel Consumption at Conditions of the EUDC Cycle	Michael Ben Chaim, Efraim Smerling	68007-021
Modeling Vehicle Fuel Consumption at Urban Operating Conditions	Michael Ben Chaim, Efraim Smerling	68007-026
The Impacts of Natural Gas Prices on the Lithuanian Economy: A CGE Analysis	Vidas Lekavičius, Arvydas Galinis	68007-011

Conference Room: H202

Time: 17:30-19:30

AEBD Session: Fiscal Policies and Financial Issues in European Countries II

Chair: Maja Pervan, Nelson Duarte

Analysis of Sticky Costs: Croatian Evidence	Maja Pervan, Ivica Pervan	68005-101
Dynamic Panel Analysis of B&H Insurance Companies' Profitability	Maja Pervan, Marijana Ćurak, Ivana Marijanović	68005-105
ABC Method – Guarantor of Real Costs in the Mining Extractive Industry Entities	Mariana Man, Ileana Sorina Rakos Boca, Sorinel Capusneanu	68005-069
Planning, Cooperation and Competition: A Case Study in Industry and Construction in a Portuguese Region	Nelson Duarte, Francisco Diniz	68005-137
Comprehensive Income under IFRS and its Impact on Financial Performance for Romanian Listed Entities	Ramona Neag, Irina-Doina Pășcan, Ema Masca	68005-117
Enterprise Service Bus - A Backbone for SOA	Răzvan Daniel Zota, Radu Stefan Moleavin, Laurențiu Ciovică	68005-161

Conference Banquet: 20:00

Tuesday July 3rd 2012

Conference Room: H202

Time: 09:00-12:00

MAMECTIS Session: Numerical Methods in Modern Science

Chair: Asker Ali Abiyev, Maria Crina Radu

Essential Properties of Abiyev's Balanced Squares	Asker Ali Abiyev, Aghajan Abiyev, Azer Abiyev	68001-207
Analysis of the Correlation Accuracy-Distribution of Residual Stresses in the Case of Parts Processed by SPIF	Crina Radu	68001-277
Analysis and Design Insights for an E-Finance Platform Using Parallel Processing	Darie Moldovan, Mircea Moca, Mircea Rusu	68001-252
On Some Properties of I-Stable Functions	Dusan Bednarik, Andrea Berkova	68001-132
An Elitist Genetic Heuristic for the K Clusters with Fixed Cardinality Problem	Graca Marques Goncalves, Lidia Lampreia Lourenco, Margarida Vaz Pato	68001-237
Filtering Spectral Methods with Chebyshev-Pade Approximants	Joao Matos	68001-227
Report about the Probabilistic Approaches Applied in Mechanics of Continental Plates	Karel Frydryšek, Ivo Wandrol, Pavel Kalenda	68001-222
Speech Bandwidth Classification using General Acoustic Features, Modified Spectral Roll-Off and Artificial Neural Network	Marko Kos, Zdravko Kačič, Damjan Vlaj	68001-292
Analysis of an Equipment Condition by Q & Multivariate Q Control Charts	S. S. Lampreia, J. G. Requeijo	68001-282
Coordinated Fuzzy Autocatalytic Set of Fuzzy Graph Type-3 of an Incineration Process	Sumarni Abu Bakar, Tahir Ahmad, Sabariah Baharun	68001-107

Tuesday July 3rd 2012

Conference Room: H207

Time: 09:30-12:00

EDUTE Session: Technological Advances in Engineering Education

Chair: Valeriu Prepelita, Dimitrios Bandekas

Knowledge Innovation and Technology Transfer. Research as Part of the Romanian Engineering Education	Brandusa Prepelita-Raileanu	68003-049
Developing a Frame for Quality and International Cooperation in a Romanian Engineering Context	Brandusa Prepelita-Raileanu	68003-052
New Paradigms in Artificial Intelligence. The Experience of a Romanian Project	Brandusa Prepelita-Raileanu, Valeriu Prepelita	68003-046
Employment and Career Structure of the Kavala Institute of Technology (DASTA)	D. V. Bandekas, A. Ch. Mitropoulos, N. Vordos, D. A. Gkika, V. Vogiatzi, J. W. Nolan, K. Stergidis	68003-043
Engineering Applications of Industrial Practice in Education	Karel Dvořák	68003-022
Business Software Simulation for Education of Future Engineers	Veronika Faifrova, Vaclav Baroch, Zdenek Riha	68003-013
Engineering Employability Skills for Malaysian Industry: Framework Development	Yuzainee Md Yusoff, Azami Zaharim, Mohd Zaidi Omar, Azah Mohamed, Norhamidi Muhamad, Ramlee Mustapha, Riza Atiq Abdullah O. K. Rahmat	68003-019
Measuring Engineering Employability Skills	Yuzainee Md Yusoff, Azami Zaharim, Mohd Zaidi Omar, Azah Mohamed, Norhamidi Muhamad, Riza Atiq Abdullah O. K. Rahmat	68003-016

Tuesday July 3rd 2012

Conference Room: H208

Time: 09:30-12:00

AEBD Session: Financial Development in the Czech Republic

Chair: Jaroslav Kovárník, Jan Stejskal

Analysis of Impact of Direct Foreign Investment in the Czech Republic	Eva Hamplová, Kateřina Provazníková, Jaroslav Kovárník	68005-157
Financing and Mezzanine Capital in the Context of PPP Projects in the Czech Republic	Jan Svědík, Liběna Tetřevová	68005-073
Developmental Analysis of Mergers in the Czech Republic 2001–2009 from the Perspective of Ownership Structure	Jaroslav Sedláček, Petr Valouch, Eva Hýblová	68005-041
Indebtedness in the Czech Republic and in Some Selected EU Countries	Jindřiška Šedová, Luděk Benada	68005-125
The Effectiveness of Public Support in the Form of Innovation Vouchers – Czech Regional Case	Katerina Matatkova, Jan Stejskal	68005-053
Problems with Application of the Triple Helix in the Czech Republic	Liběna Tetřevová, Jana Kostalova	68005-025
Public Private Partnership Projects in the Conditions of the Czech Republic	Liběna Tetřevová, Veronika Sabolová	68005-037
Strategic Alliances in the Context of Strategic Partnerships from the Point of View of the Czech Republic	Liběna Tetřevová, Vladimira Vlckova	68005-021
Tax Support of Small and Medium Enterprises in Czech Republic	Pavel Jedlička, Jaroslav Kovárník	68005-153

Coffee Break: 12:00-12:30

Tuesday July 3rd 2012

Conference Room: H202

Time: 12:30-14:30

MAMECTIS Session: Advanced Mathematical Methods

Chair: Karel Frydryšek, Marina Novak

A Two-Echelon Facility Location Problem with Layout Selection	Isabel Correia, Teresa Melo, Francisco Saldanha-Da-Gama	68001-162
Assessment of Centreline Temperature of Fire Plume with Respect to a Gas Hot Layer	Jiří Pokorný, Karel Frydryšek, Horst Gondek	68001-232
Intelligent Support to Creation of the Product Design Specifications	Marina Novak	68001-182
Visualization of Multivariate Health Data Using Self-Organizing Maps	Mark Lester Ghany, Geoffrey Solano	68001-212
Weighted Ridge MM-Estimator in Robust Ridge Regression with Multicollinearity	Siti Meriam Zahari, Mohammad Said Zainol, Muhammad Iqbal Al-Banna Bin Ismail	68001-202
Logical-Linguistic Semantic in Search Engine	Tengku M. T. Sembok, Mohamad Fauzan Nordin, Roslina Othman, Rabiah Abdul Kadir	68001-302
The Change in Impedance of a Coil Located Above a Moving Half-Space	Valentina Koliskina, Inta Volodko	68001-187

Conference Room: H207

Time: 12:30-14:30

CONTROL Session: Automatic Control

Chair: Aldo Pardo Garcia, Gabor Csernak

The Application of Genetic Algorithms in Electrical Drives to Optimize the PWM Modulation	Andrés Fernando Lizcano Villamizar, Jorge Luis Díaz Rodríguez, Aldo Pardo García	68004-061
Educational Robotic Platform of Low Cost for Brain and Servovisual Control Practice	Edward Vega, Cesar Peña, Aldo Pardo	68004-066
Disconnected Chaotic Attractors in Digitally Controlled Linear Systems	Gábor Csernák, Gábor Stépán	68004-041
Optimum Fuzzy Logic Controller Apply to Induction Motor Control	Jorge L. Diaz, Aldo Pardo, Tania L. Acevedo	68004-056
Design and Implementation of a Teaching Module for the Control of Three Phase Asynchronous Motors	Jorge Luis Diaz Rodriguez, Aldo Pardo Garcia, Amaury Caballero	68004-071
Design and Implementation of a Low Cost Speed Control System for a BLCD Motor	Jorge Luis Díaz Rodríguez, Aldo Pardo Garcia, Amaury Caballero	68004-051

Tuesday July 3rd 2012

Conference Room: H208

Time: 12:30-14:30

EDUTE Session: Electronic Media in Modern Education

Chair: Boyan Bontchev, Pavel Trojovský

Adaptive Edutainment in UML	Boyan Bontchev, Dessislava Vassileva	68003-064
Teacher Training with LEEMUSICA/READMUSIC	Castanon-Rodriguez Rosario, Vivaracho-Pascual Carlos	68003-094
On Some Problems for Loci of Points via GeoGebra	Eva Trojovská, Pavel Trojovský	68003-058
Low-Cost Access Management System in an Educational Environment	Fábio J. Costa, Samuel Pereira, Ana Rosmaninho, Micael S. Couceiro, Carlos M. Figueiredo, Victor Santos, N. M. Fonseca Ferreira	68003-076
Program Supporting the Digitally Excluded Roma Population	Gabriela Caltová Hepnarová, Anna Šafářová	68003-073
Electronic Media in the Environment of the Contemporary Households and Families	Leona Stašová, Iva Junová, Tereza Adámková	68003-055
Sustainable Campus in Malaysia	Omidreza Saadatian, Sohif Bin Mat, Elias Salleh, Ch. Lim, Bardia Bkhtyar, K. Sopian	68003-007

Coffee Break: 14:30-15:00

Conference Room: H202

Time: 15:00-17:00

CONTROL Session: Modelling in Systems and Control

Chair: Alaa Abdul-Ameer, Pavel Nevřiva

The Modelling and Simulation of Gas Pipeline Dynamics	Alaa Abdul-Ameer	68004-031
Gaussian and Quadratic Polynomial Equation for THAICHOTE Satellite Propellant Re-Check	Ammarin Pimnoo	68004-046
Simulation of Automatic Control of the Experimental Power Plant	Pavel Nevřiva, Ladislav Vilimec, Martin Pies	68004-001
On the Equivalence of Control Systems on the Orthogonal Group SO (4)	R. M. Adams, R. Biggs, C. C. Remsing	68004-006
Integrity Analysis for Multivariable Feedback Systems	Robert Whalley	68004-036
On the Equivalence of Cost-Extended Control Systems on Lie Groups	Rory Biggs, Claudiu C. Remsing	68004-011

**Porto, Portugal
July 1-3, 2012**