Conference Program

WSEAS

Editors: Imre J. Rudas, Azami Zaharim, Kamaruzzaman Sopian, Jiri Strouhal

Recent Researches in Engineering Education and Software Engineering

› Proceedings of the 11th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '12)

› Proceedings of the 9th WSEAS International Conference on Engineering Education (EDUCATION '12)

Cambridge, UK, February 22-27, 2012

ISBN: 978-1-61804-070-1

Editors: Imre J. Rudas, Azami Zaharim, Kamaruzzaman Sopian, Jiri Strouhal

Recent Researches in Engineering Mechanics, Urban & Naval Transportation and Tourism

• Proceedings of the 5th WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '12)
• Proceedings of the 5th WSEAS International Conference on Urban Planning and Transportation (UPT '12)
• Proceedings of the 5th WSEAS International Conference on Maritime and Naval Science and Engineering (MN '12)
• Proceedings of the 5th WSEAS International Conference on Cultural Heritage and Tourism (CUHT '12)

Cambridge, UK, February 25-27, 2012

ISBN: 978-1-61804-071-8

Editors: Imre J. Rudas, Azami Zaharim, Kamaruzzaman Sopian, Jiri Strouhal

Recent Researches in Communications, Electronics, Signal Processing & Automatic Control

• Proceedings of the 11th WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC '12)

• Proceedings of the 11th WSEAS International Conference on Signal Processing, Robotics and Automation (ISPRA '12)

• Proceedings of the 4th WSEAS International Conference on Nanotechnology (NANOTECHNOLOGY '12)

Cambridge, UK, February 22-24, 2012

ISBN: 978-1-61804-069-5

Editors: Imre J. Rudas, Azami Zaharim, Kamaruzzaman Sopian, Jiri Strouhal

Recent Researches in Artificial Intelligence & Database Management

Proceedings of the 11th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED '12)

Cambridge, UK, February 22-24, 2012

ISBN: 978-1-61804-068-8
ISSN: 1792-8117

Cambridge, UK
February 22-27, 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.

11th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED '12)

11th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '12)

11th WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC '12)

11th WSEAS International Conference on Signal Processing, Robotics and Automation (ISPRA '12)

4th WSEAS International Conference on Nanotechnology (NANOTECHNOLOGY '12)

9th WSEAS International Conference on Engineering Education (EDUCATION '12)

5th WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '12)

5th WSEAS International Conference on Urban Planning and Transportation (UPT '12)

5th WSEAS International Conference on Cultural Heritage and Tourism (CUHT '12)

5th WSEAS International Conference on Maritime and Naval Science and Engineering (MN '12)

Cambridge, UK
February 22-27, 2012

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 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

Registration: 08:00-09:00

Conference Room A:
Time: 09:00-09:45
Plenary Lecture 1:

Mechanics of Nanoelectromechanical Systems
by Prof. K. M. Liew, City University of Hong Kong, HONG KONG SAR.

Conference Room B:
Time: 09:00-09:45
Plenary Lecture 2:
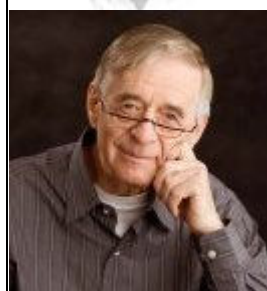
Phase Diversity Principal for Mitigation of Channel Effects in Mobile Communication Systems
by Prof. Motti Haridim and Prof. Michael Bank, HIT-Holon Institute of Technology, ISRAEL.

Conference Room A:
Time: 09:45-10:30
Plenary Lecture 3:

Nanopackage Designs Based on Nanosized Mosaic Metal Oxides: Capturing and Monitoring Hazardous and Radioactive Agents
by Prof. Sherif A. El-Safty, National Institute for Materials Science & Graduate School for Advanced Science and Engineering, JAPAN.

Conference Room B:
Time: 09:45-10:30
Plenary Lecture 4:
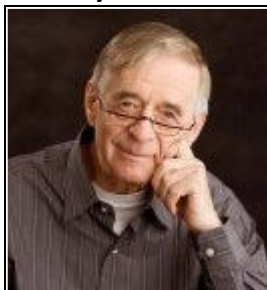
One-Way Line System for Transmitting Energy or Information
by Prof. Michael Bank, HIT-Holon Institute of Technology, ISRAEL.

Coffee Break: 10:30-11:00

Conference Room: A
Time: 11:00-13:00
AIKED Session: Advances in Artificial Intelligence I
Chair: Danimir Mandic, Keon Myung Lee

Artificial Intelligence in Supervised Learning	Danimir Mandic	674-480
Educational WEB portals and Data Bases in Physical Education	Danimir Mandic, Dragan Martinovic, Nenad Lalic	674-232
Artificial Intelligence in Programmed Teaching and Learning	Danimir Mandic, Mirko Dejic, Ezzadeen Kamuka	674-236
Computer-based Information System in Education	Danimir Mandic, Momcilo Pelemis, Stevo Pasalic, Nenad Lalic	674-485
Linguistic Classification Pattern Extraction for Numeric Data	Kyung Mi Lee, Keon Myung Lee, Chan Hee Lee	674-478
On Informational Coefficient of Correlation for Possibility Distributions	Robert Fuller, Istvan A. Harmati, Peter Varlaki, Imre J. Rudas	674-094

Conference Room: B
Time: 11:00-13:00
SEPADS Session: Parallel and Distributed Systems
Chair: Dragan Randjelovic, Major Singh Goraya

A Colored Petri Net Model for the France Paris Metro System	Anthony Spiteri Staines	674-137
Distributed Parallel Architecture for Storing and Processing Large Datasets	Catalin Boja, Adrian Pocovnicu	674-322
Reducing the Number of Processors Elements in Systolic Arrays for Matrix Multiplication	Dragan Randjelovic	674-181
Trust and Reputation Based Association Among Grid Entities	Major Singh Goraya, Lakhwinder Kaur	674-304
An Intel Cilk Plus Based Task Tree Executor Architecture	Miroslav Popovic, Ilija Basicevic	674-160

Coffee Break: 13:00-13:30

Conference Room: A
Time: 13:30-15:30
AIKED Session: Neural Networks, Fuzzy Systems and Evolutionary Computing
Chair: Azah Mohamed, Yesuratnam Guduri

Application of Quantum-Inspired Binary Gravitational Search Algorithm for Optimal Power Quality Monitor Placement	Ahmad Asrul Ibrahim, Azah Mohamed, Hussain Shareef	674-147
Congestion Management Technique Using Fuzzy Logic Based on Security and Economy Criteria	G. Yesuratnam, N. Srilatha, P. Lokender Reddy	674-286
Nonlinear Function Approximation Using Fuzzy Functional SIRMs Inference Model	Hirosato Seki	674-463
A Generalized 3-Component Portfolio Selection Model	Irina Georgescu, Jani Kinnunen	674-275
Evaluation of Banks Insolvency Using Artificial Neural Networks	Qeethara Kadhim Al-Shayea, Ghaleb Awad El-Refae	674-251
M-FMCN: Modified Fuzzy Min-Max Classifier Using Compensatory Neurons	Reza Davtalab, Mostafa Parchami, Mir Hossein Dezfoulian, Muharram Mansourizade, Bahareh Akhtar	674-206

Wednesday February 22nd 2012

Conference Room: B
Time: 13:30-16:00
ISPRA Session: Automatic Control and Robotics
Chair: Anton V. Doroshin, Ian Walker

Nadir Attitude Pointing Control Using Genetic Algorithm for Active Gravity Gradient Stabilised Microsatellite	A. M. Si Mohammed, B. Seba, A. Boudjemai	674-156
Motion Dynamics of Walking Robots with Multi-Rotor Drive Systems	Anton V. Doroshin	674-253
Design of a Hybrid-Actuated Finger Prosthesis with Tactile Sensing	Cheng Yee Low, Mohamad Amlie Abu Kasim, Mohd Faizal Abul Mansur, Ahmed Jaffar, Kok Mun Ng, Torben Koch	674-307
Multi-Agent Robotic System Architecture for Effective Task Allocation and Management	Egons Lavendelis, Aleksis Liekna, Agris Nikitenko, Arvids Grabovskis, Janis Grundspenkis	674-320
Robot Bedside Environments for Healthcare	Johnell O. Brooks, Ian D. Walker, Keith E. Green, Joe Manganelli, Jessica Merino, Linnea Smolentzov, Tony Threatt, Paul M. Yanik	674-148
New Exploration Strategy for Cooperative Mobile Robots	Mohammad Al Khawaldah, Ibrahim Al-Adwan, Khaled Eid	674-288
Algebraic Solutions to Scheduling Problems in Project Management	Nikolai Krivulin	674-309

Conference Room A:
Time: 09:00-09:45
Plenary Lecture 5:

Efficient Biclustering Algorithms and Their Applications to Multidimensional Biological Data Analysis
by Prof. Hong Yan, City University of Hong Kong, HONG KONG.

Conference Room B:
Time: 09:00-09:45
Plenary Lecture 6:

Artificial intelligence in Supervised learning
by Prof. Danimir Mandic, University of Belgrade, SERBIA.

Conference Room A:
Time: 09:45-10:30
Plenary Lecture 7:

Algebraic Solutions to Scheduling Problems in Project Management
by Assoc. Prof. Nikolai Krivulin, St. Petersburg State University, RUSSIA.

Conference Room B:
Time: 09:45-10:30
Plenary Lecture 8:
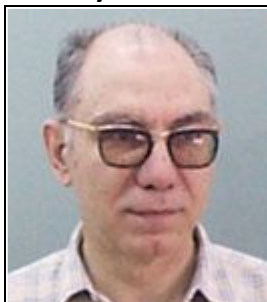
Fuzzy Multicriteria analysis for Optimal Choice of Oil/NG Pipelines Routing – A Knowledge Based Approach
by Prof. Fragiskos Batzias, University of Piraeus, GREECE.

Coffee Break: 10:30-11:00

Conference Room: A
Time: 11:00-13:00
EHAC Session: Electronic Circuits and Communications
Chair: Surinder Singh, Najat Ouaaline

Reduced Redundant Arithmetic Applied on Low Power Multiply-Accumulate Units	David Neuhauser, Eberhard Zehendner	674-458
Real-Time Transmission of Video Streaming over Computer Networks	Hassan H. Soliman, Hazem M. El-Bakry, Mona Reda	674-158
Static Output Feedback for T-S Fuzzy Model of a Synchronuous Machine	Ouaaline Najat, Elalami Noureddine	674-190
Mitigation of Distortion in FH-OCDMA Networks with Various Modulation Techniques	Surinder Singh, Chakshu Goel	674-204
Performance Assessment of AODV Routing Protocol over Temperature Constraints in Wireless Sensor Networks	Vinod Kumar Verma	674-225
Neuromorphic Circuit and System of Bio-Inspired Vision for the Safety Enhancement of Vehicle Applications	Woo Joon Han, Il Song Han	674-368

Conference Room: B
Time: 11:00-13:00
AIKED Session: Knowledge Engineering and Databases I
Chair: Fragiskos Batzias, Wynn Stirling

Adding Fault Tree Analysis (FTA) into a Knowledge – Based Problem Solver	F. A. Batzias, A. Bountri	674-237
On the Development of a Knowledge Base for Recommended Practices in Biomaterials and Bioproducts Selection – A CBR Approach	F. A. Batzias, C. G. Siontorou	674-238
Design of an Ontological Interface for Chemical and Biotechnological Knowledge Acquisition by Means of an Intelligent Agent	F. A. Batzias, C. G. Siontorou	674-292
Measuring Expressivity between Ontology Models	Khalid Albarrak, Edgar H. Sibley	674-153
Intrinsic Coordinatability of Agent-Based Systems	Wynn Stirling	674-155
Intelligent Knowledge-Based System for the Automated Screwing Process Control	Yuliya Lebedynska, Ulrich Berger	674-294

Coffee Break: 13:00-13:30

Conference Room: A
Time: 13:30-15:30
NANOTECHNOLOGY Session: Nanotubes, Nanoparticles and Nanocrystals
Chair: Fatemeh F. Bamoharram, Sherif El-Safty

Synthesis and Characterization of Modified Carbon Nanotubes with Silica-supported Preyssler Nano Particles and Study of Their Catalytic Activities in Synthesis of β-acetamido Ketones/Esters	Fatemeh F. Bamoharram, Atena Ghorbaniani, Majid M. Heravi, Ali Ahmadpour, Ali Ayati	674-109
Nano-Modeling Adsorption of Aniline Compounds onto Mesoporous Structures	Mohamed Ismael, Sherif A. El-Safty	674-468
Green Chemical Transformation of Phenolic Pollutants using Mesoporous NiO Nanocrystals with Sheet-Like Morphology	Mohamed Khairy, Sherif A. El-Safty, Mohamed Ismael, M. A.Shenashen	674-467
Adsorption of Biological Macromolecules into Mesocage Cavities of Cubic Pm3n Aluminosilica Monoliths	Sherif A. El-Safty, Mohamed A. Shenashen	674-469
Effects of Size, Shape, Crystal Plane and Atomic Discrete Structure on Interactions between Carbon Nanoparticles	Weifu Sun, Qinghua Zeng, Aibing Yu	674-324

Conference Room: B
Time: 13:30-15:30
AIKED Session: Advances in Artificial Intelligence II
Chair: Aboubekeur Hamdi-Cherif, Pankoo Kim

Knowledge Base Learning Control System - Part 1: Generic Architecture	Aboubekeur Hamdi-Cherif	674-203
Knowledge Base Learning Control System - Part 2: Intelligent Controller	Aboubekeur Hamdi-Cherif	674-205
A Method for Enhancing Image Retrieval based on Annotation using Modified WUP Similarity in WordNet	Dongjin Choi, Jungin Kim, Hayoung Kim, Myunggwon Hwang, Pankoo Kim	674-217
Recreation of Spontaneous Non-Verbal Behavior on a Synthetic Agent EVA	Izidor Mlakar, Matej Rojc	674-483
PsycheTagger – Using Hidden Markov Model to Annotate English Text with Semantic Tags based on Emotive Content	Liaquat Majeed Sheikh, Summaira Sarfraz, Ahsan Nabi Khan	674-481
Optimized Cascade PI Controllers of Buck Converters Using Particle Swarm Optimization Algorithm	S. Chonsatidjamroen, K-N. Areerak, K-L. Areerak, A. Srikaew	674-136

Conference 1st Banquet: 19:45

Conference Room A:
Time: 09:00-09:45
Plenary Lecture 9:

Attitude Dynamics and Control of Multi-Rotor Spacecraft and Roll-Walking Robots
by Assoc. Prof. Anton V. Doroshin, Samara State Aerospace University, RUSSIA.

Conference Room A:
Time: 09:45-10:30
Plenary Lecture 10:

Industrializing Carbon Nanotechnology
by Prof. Mark J. Schulz, University of Cincinnati, USA.

Conference Room B:
Time: 09:45-10:30
Plenary Lecture 11:

New Approaches in Information Aggregation
by Prof. Imre J. Rudas, Obuda University, HUNGARY.

Coffee Break: 10:30-11:00

Friday February 24th 2012

Conference Room: A
Time: 11:00-13:00
AIKED Session: Knowledge Engineering and Databases II
Chair: Aqil Burney, Fragiskos Batzias

Advances in Fuzzy Rough Set Theory for Temporal Databases	Aqil Burney, Nadeem Mahmood, Zain Abbas	674-486
Incorporating the Principle of Simplicity into Model Based Reasoning (MBR) used for Computer Aided Simulation of Industrial Processes	F. A. Batzias, D. K. Sidiras	674-299
Inversion the Chlorophyll Content based on the Ground Hyper-Spectral Image Data	Fang Xinwei	674-257
Mapping DB to RDF with Additional Discovered Relations	Mamdouh Farouk, Mitsuru Ishizuka	674-367
Decision Tree Classification on Column-Store Database Systems	Nafees Ur Rehman, Marc H. Scholl	674-289

Conference Room: B
Time: 11:00-13:00
ISPRA Session: Signal Processing
Chair: Ayyaz Hussain, Vladimir Kazakov

Survey of Various Feature Extraction and Classification Techniques for Facial Expression Recognition	Ayyaz Hussain, Muhammad Shahid Khan, Muhammad Nazir, M Amjad Iqbal	674-277
Surface Texture Evaluation of Cylinder Liners Using Machine Vision	Deepak Lawrence K., B. Ramamoorthy	674-281
Arabic Online Word Extraction from Handwritten Text using SVM-RBF Classifiers Decision Fusion	Randa Ibrahim Elanwar, Mohsen Rashwan, Samia Mashali	674-168
Development of an Adaptive Line Enhancer using Nonlinear Neural Networks	Roshahliza M. Ramli, Ali O. Abid Noor, Salina Abdul Samad	674-260
Sampling Procedure of the Sum of two Binary Markov Process Realizations	Yury Goritskiy, Vladimir Kazakov	674-207

Coffee Break: 13:00-13:30

Friday February 24th 2012

Conference Room: A
Time: 13:30-15:30
SEPADS Session: Advances on Software Engineering
Chair: Giuseppe Destefanis, Maria Luz Gandarias

The Enterprise Service Bus as Integration Architecture in Heterogeneous Systems	Katiuscia Mannaro, Giuseppe Destefanis, Marco Di Francesco	674-492
Conservation Laws for a Third Order Equation by using Free Software MAXIMA	Maria L. Gandarias, Maria S. Bruzon	674-189
Evolution-Centered Architectural Design Decisions Management	Meiru Che, Dewayne E. Perry	674-326
Mixing SNA and Classical Software Metrics for Sub-Projects Analysis	Roberto Tonelli, Giuseppe Destefanis	674-295
Towards Developing Software Testing as a Service (Staas) Model in Cloud Computing: A Case of Collaborative Knowledge Management System	Rusli Abdullah	674-149
Specifying System Families with TLA+	Tatjana Kapus	674-280

Registration: 08:00-08:45

Conference Room: A
Time: 08:45-09:30
Plenary Lecture 1:

	How to Test Accounting Harmonization upon the Globalization of Financial Reporting Systems by Prof. Jiri Strouhal, University of Economics Prague, CZECH REPUBLIC.

Conference Room: A
Time: 09:30-11:30
EDUCATION Session: Engineering and Technology Education I
Chair: Azami Zaharim, Jiri Strouhal

Profile Analysis of the Parallel Circuit Conceptual Understanding Test (PCCUT_28) with the Engineering Students	A. Nazlinda, K. L. Beh, A. A. Azrilah, Andanastuti Muchtar, Azami Zaharim	674-450
Pedagogical Strategies – A Progress Factor in the Acquisition and Improvement of Gymnastics-Specific Motor Skills in Highschool	Iconomescu Teodora Mihaela, Talaghir Laurentiu-Gabriel, Manolache Gabriel Marian	674-228
Testing Accounting Harmonization upon the Globalization of Financial Reporting Systems	Jiri Strouhal	674-472
Multimedia Support of Parametric Modeling	Josef Sedivy	674-321
Mean Gap Analysis between Universiti Kebangsaan Malaysia Engineering Graduates and Malaysia Engineering Graduates from the Perception and Expectation of Employers	Mohd Huzairi Johari, Roslena Md.Zaini, Azami Zaharim, Hassan Basri, Andanastuti Muchtar	674-448
The Investigation of Initial Personality Attribute of The UKM-UDE Students Using Rasch Model	Mohd Najib Redzuan Lee, Nuraini Khatimin, Andanastuti Muchtar, Kaseh Haji Abu Bakar, Azami Zaharim	674-449

Coffee Break: 11:30-12:00

Conference Room: A
Time: 12:00-14:00
UPT Session: Modern Urban Planning I
Chair: Charalampos Arapatsakos, Eugen Ghita

Blends of Diesel-Maize Oil and Diesel-Soy Oil in a Four Stroke Diesel Engine	Charalampos Arapatsakos, Anastasios Karkanis, Dimitrios Christoforidis, Marianthi Moschou	674-496
The Relation between the Inlet and Outlet Temperature of Catalyst and Gas Emissions by using Artificial Neural Networks	Charalampos Arapatsakos, Dimitrios Cristoforidis	674-497
Mixtures of Gasoline-Ethanol and Gasoline –methanol in a Two Stroke Outboard Low Output Engine	Charalampos Arapatsakos, Marianthi Moschou	674-498
Developing Qatar's Regional Transit Network: Proposed Scenarios for Linking Doha City to Al-Wakra City and Mesaieed Industrial City	Rania F. Khalil, Khaled S. Shaaban	674-313
Comparative Analysis of Territorial Development in the Belgrade Metropolitan Area and in Serbian part of the Danube River Basin	Slavka Zekovic, Miodrag Vujosevic, Tamara Maricic	674-191

Coffee Break: 14:00-14:30

Conference Room: A
Time: 14:30-17:00
EMESEG Session: Smart and Adaptive Structures
Chair: Laszlo Schreck, Camelia Pinca-Bretotean

Strengthened and Rehabilitation of Transylvanian Saxon House	Gabriela Gherghel, Laszlo Schrek	674-186
An Economic Proposal in the Design of the One Storey – Level Steel Structure. The Use of Castellated and Sinusoidal Steel Sections	George Xanthakis, Lambrini Panagopoulou	674-316
Experimental Research on Prefabricated Chimneys' Behaviour to Dynamic Actions	Laszlo Schrek, Gabriela Gherghel	674-165
Theoretical and Experimental Analysis of Load-Carrying Capacity of Steel-Concrete Composite Beams with Glass-Fibre-Concrete Slab	Marcela Karmazinova, Pavla Bukovska, Pavla Neubauerova	674-366
Effectiveness of Strengthening Steel Beams using External Bonded CFRP lamellas	Marcela Karmazinova, Pavla Neubauerova, Pavla Bukovska	674-473
Torsion Stiffness of Thin-walled Steel Beams with Web Holes	Martin Horacek, Jindrich Melcher	674-185
Buckling Resistance of Steel Tubular Columns Filled by High-strength Concrete	Pavla Bukovska, Marcela Karmazinova, Pavla Neubauerova	674-301
Strengthening Timber Beams using Externally Bonded Carbon – Fiber Reinforced Polymer	Pavla Neubauerova, Marcela Karmazinova, Pavla Bukovska	674-098

Sunday February 26th 2012

Conference Room: A
Time: 09:00-11:00
UPT-MN Session: Urban & Naval Transportation
Chair: Eugen Ghita, Ioana Raluca Visan

Wheel-Rail Contact Issues on Railway and Light-Rail Transportation	Eugen Ghita, Lucia Vilceanu	674-243
Steering Among a Sea of Multicultural Islands	Ioana Raluca Visan, Mircea Georgescu	674-300
Logistics Facilities Designing Method and its Implementation into Designing Software	Kostrzewski Mariusz	674-183
Urban Planing and Public Transport	Mojca Sasek Divjak	674-093
Waste and Resource Management Practices, Legislation and Policy Encouraging and Influencing 'regeneration Reuse' of Property Assets	Morgan J. Bleek	674-231
Surveying and Analyzing Parking Conditions in the Campus of the Technical University of Crete	A. Tsouchlaraki, G. Achilleos, Ch. Karavas	674-097

Coffee Break: 11:00-11:30

Conference Room: A
Time: 11:30-13:30
CUHT Session: Cultural Heritage and Tourism
Chair: Ayse Muge Bozdayi, Daniela Nechita

Cultural Authenticity in Tourist Settings: Traditional Turkish Coffeehouse Interiors	Ayse Muge Bozdayi, Nur Ayalp	674-454
Perspectives in the Development of Tourism Market in Southeast Europe	Daniela Nechita, Costel Nistor, Ludmila Daniela Manea	674-230
SkyLineDroid: An Outdoor Mobile Augmented Reality Application for Virtual Heritage	Giuseppe Armanno, Andrea Bottino, Andrea Martina	674-182
Special Similarities of Planning and Design Criteria at Isfahan and Shahjahanabad Cities (with the Emphasis on Cultural Attributes during 17th Centuries)	Mehdi Haghighatbin, Aliakbar Taghvaee, Mohammad Reza Pourjafar	674-154
The Significance of City Logo in City Branding Strategy	Octaviyanti Dwi Wahyurini	674-171

Coffee Break: 13:30-14:00

Conference Room: A
Time: 14:00-16:00
EDUCATION Session: Engineering and Technology Education II
Chair: Ala Kovieriene, Kamish Osman

The Link between Applied Technical Knowledge and Non-Cognitive Traits	Ala Kovieriene	674-140
Interactive Multimedia Module with Pedagogical Agent in Science and Technology Learning: Application in Electrochemistry	Kamisah Osman, Riza Atiq Abdullah O. K. Rahmat, Lee Tien Tien	674-477
CAx Application in the Teaching of Engineering Subjects	Karel Dvorak, Josef Sedivy	674-317
Educational Computer Game Design Model for Malaysian Science and Technology Classroom	Riza Atiq Abdullah O. K. Rahmat, Kamisah Osman, Nurul Aini Bakar	674-455
Brain Dominance and Its Consequences over the Student-Professor Relationship	Valentina Mihaela Ghinea, Shahrazad Hadad, Karin Shaffer, Mihalache Ghinea	670-427

Conference 2nd Banquet: 19:45

Monday February 27th 2012

Conference Room: A
Time: 09:00-11:00
UPT Session: Modern Urban Planning II
Chair: Marek Franek, Vladimira Silhankova

The Effect of Urban Vegetation and Traffic Intensity on Walking Speed	Marek Franek	674-298
Analysis of Traffic Problems in Kuwait	Mohammed A. Hajeeh	674-173
Evaluation of Sustainable Regional Land Use	Vladimira Silhankova, Michael Pondelicek	674-306
Being Successful in the Air Transport Sector: The Role of Strategy Implementation	Susana Teles, Manuela Sarmento	674-311

Coffee Break: 11:00-11:30

Conference Room: A
Time: 11:30-13:30
EMESEG Session: Engineering Mechanics: Theory and Applications
Chair: Camelia Pinca-Bretotean, Lucia Vilceanu

Numerical Modeling and Analysis of Geosynthetic Reinforced Pile Supported Embankments	Anjana Bhasi, K.Rajagopal	674-285
Experimental Plant for Laboratory Research of Thermal Fatigue Phenomenon	Camelia Bretotean Pinca, Ana Josan	674-170
The Influence of Chemical Composition on the Mechanical Properties of Steels used for Manufacturing Monoblock Railway Wheels	Constantin Andronache, Ana Socalici, Lucia Vilceanu, Teodor Heput	674-196
On Consistent Reissner Beam Formulation using Quaternion Algebra	Eva Zupan, Dejan Zupan, Miran Saje	674-135
Considerations Regarding the Working Life of the Component Wires in a Wire-Rope	Lucia Vilceanu, Eugen Ghita, Vasile Putan	674-233
Effect of Humic Acid on the Selenite Adsorption onto Hematite	Myoung-Jin Kim, Mijeong Jang, Se Young Pak	674-462
Reduction of Squeal on Laminated Brake Disc Fastened with Distributed Contact Pressure	Y. Kubota, K. Okubo, T. Fujii	674-314

Coffee Break: 13:30-14:00