



IEEEAM and NAUN Conferences
Joint Program

**2nd International conference on Applied Informatics
and Computing Theory (AICT '11)**

**2nd International conference on Circuits, Systems,
Control, Signals (CSCS '11)**

**2nd International conference on Urban Sustainability,
Cultural Sustainability, Green Development, Green
Structures and Clean Cars (USCUDAR '11)**

2nd World Medical Conference:

2nd International Conference on Pathology (Pathology '11)

2nd International Conference on Surgery (Surgery '11)

2nd International Conference on Cardiology (Cardiology '11)

2nd International Conference on Neurology (Neurology '11)

**2nd International Conference on Gastroenterology
(Gastroenterology '11)**

**2nd International Conference on Obstetrics and Gynaecology
(Obstetrics and Gynaecology '11)**

**2nd International Conference on Ophthalmology
(Ophthalmology '11)**

**2nd International Conference on Endocrinology
(Endocrinology '11)**

Prague, Czech Republic, September 26-28, 2011



CONFERENCE ROOMS IN THE PRAGUE CENTRE

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CONFERENCE ROOMS

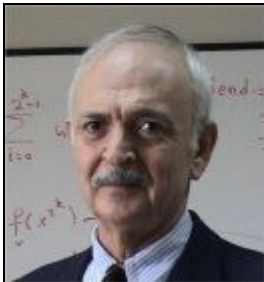
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1st Day, September 26, 2011

Registration: 08:00-08:45

Keynote Lecture: 08:45-09:30, Room A'



Dominating the Constancy in Enhanced Multivariate Product Representation (EMPR) Via Support Function Selection
by Prof. Metin Demiralp, Istanbul Technical University, TURKEY.

Plenary Lecture 1: 09:30-10:00, Room A'



On Computational Techniques based on Nonlinear and Fuzzy Systems Theory for NMR Spectroscopy Data Mining
by Prof. Dimitris Karras, Chalkis Institute of Technology, GREECE

Plenary Lecture 2: 09:30-10:00, Room B'



Personalized Neurological Diagnostics from Biomedical Physicist's Point of View and Application of New Non-Linear Dynamics Methods in Biosignal Analysis
by Prof. Włodzimierz Klonowski, Nalecz Institute of Biocybernetics, POLAND.

Plenary Lecture 3: 09:30-10:00, Room C'



Morphological Impairment of the Macula and Optic Nerve in Parkinson's Disease Patients without Vision Loss
by Dr. Marilita M. Moschos, University of Athens, Greece.

Plenary Lecture 4: 10:00-10:30, Room A'



Rayleigh Quotient Flattening Methods for the Eigenvalue Problems of Linear Operators Between Separable Hilbert Spaces
by Prof. N. A. Baykara, Marmara University, TURKEY.

Plenary Lecture 5: 10:00-10:30, Room B'



The Eye is Moving! Sclera Deformation by the Ocular Movements and its Role on the Development of the Clinical Signs of Various Macula Disorders. A New Hypothesis
by Dr. Ioannis P. Theocharis, Primevision, GREECE.

Plenary Lecture 6: 10:00-10:30, Room C'



Is it Worthwhile to Systematically Assess Sleep Habits in Cardiac Patients?
by Prof. Carlos Rivas-Echeverria, Universidad de Los Andes, VENEZUELA.

Plenary Lecture 7: 10:30-11:00, Room A'



Non-Thrombotic Neurological and Cardiac Manifestations in Antiphospholipid Syndrome
by Prof. Ljudmila Stojanovich, Belgrade University, SERBIA.

Plenary Lecture 8: 10:30-11:00, Room B'



Pharmacokinetics of Routinely Administered Compounds During Pregnancy Reflect Pregnancy Related Physiological Changes
by Assoc. Prof. Karel Allegaert, University Hospitals Leuven, BELGIUM.

Plenary Lecture 9: 10:30-11:00, Room C'



Surgical Repair of the Mitral Valve: Can Engineering Do More?
by Dr. Daniel M. Espino, University of Birmingham, UK.

Coffee-break: 11:00-11:30

CONFERENCE ROOM A': 11:30-14:00

AICT Session: Image and Sound Processing Software

Chair: Bruno Carpentieri, Cosmin Poteras

LZ-based Adaptive Compression for Images	Bruno Carpentieri	210-150
Influence areas as a Tool for Testing of Image Restoration Methods	Igor V. Gribkov, Peter P. Koltsov, Nikolay V. Kotovich, Alexander A. Kravchenko, Alexander S. Koutsaev, Andrey S. Osipov, and Alexey V. Zakharov	210-204
Evaluation of Centres of Stripes in the Interferogram Image	Jan Richter, Jiri Stastny	210-174
A Fundamental Conception to Formulate Image Data Hiding Scheme Based on Error Diffusion	Masakazu Higuchi, Shuji Kawasaki, Jonah Gamba, Atsushi Koike, Hitomi Murakami	210-202
Improving Parallel Data Flow Support in a Visualization and Steering Environment	Mihai L. Mocanu, Cosmin M. Poteras, Constantin S. Petrisor	210-264
Visual inspection of blood containers	Radka Pustkova, David Vala, Zdenek Slanina	210-291
Pattern Recognition Based Method Used in Identifying Impaired Speech	Valentin Velican, Ovidiu Grigore, Corina Grigore	210-229
Flower Information Retrieval using Color Feature and Location-based System	Wichian Premchaiswadi, Nucharee Premchaiswadi	210-182

CONFERENCE ROOM B': 11:30-14:00

CSCS Session: Advances on Systems Sciene

Chair: Zuzana Tuckova, Catalin Alexandru

The Judgment of Document Similarities Using Various Orthogonal Transformations	Atraru Matsuzawa, Masakazu Higuchi, Gamba Jonah, Shuji Kawasaki, Hitomi Murakami	210-152
Calculation Methods for Costs Optimization and Process Modeling in Health Care: A Preliminary View	B. Popesko, Z. Tuckova, J. Strouhal	210-275
Dynamic Analysis of a Half-Car Model with Active Suspension	Catalin Alexandru, Petre Alexandru	210-134
The Portal Solution for Support of TBU Graduates' Employability in the Labour Market	D. Tucek, M. Mikeska	210-280
Hydrogen and Deuterium Sorption on Titanium under Vacuum Conditions	Eusebiu Ilarian Ionete, Bogdan Monea, Marius Zamfirache	210-271
Performance Analysis of M-ary CSK Based Transform Domain Communication System	Haixin Sun, Guoan Bi, Yongliang Guan, Yaowu Shi	210-195

On State-Space Energy Based Generalization of Brayton-Moser Network Decomposition	J. Hrusak, M. Stork, D. Mayer	210-223
Recognition System of Unknown Shape Rubbles for Withdrawal Works by Rescue Robots	Masatoshi Hatano	210-160
About Structure Complex Error of Control System with Feedback	Oleg N. Agamalov	210-161

CONFERENCE ROOM C': 11:30-14:00

WORLD MEDICAL Session: Advances on Endocrinology, Gastroenterology, Obstetrics, Gynaecology, Ophthalmology

Chair: Karel Allegaert, Alexander Sirotkin

Pharmacokinetics of Routinely Administered Compounds During Pregnancy Reflect Pregnancy Related Physiological Changes	Aida Kulo, Jan De Hoon, Jan Deprest, Roland Devlieger, Karel Allegaert	304-110
New Regulators of Ovarian Functions	Alexander V. Sirotkin	304-120
Prevention of Preeclampsia by High Dose Riboflavin Supplementation	C. Elsen, C. Rivas-Echeverria, K. Sahland, P. Bogucki, F. Rivas-Echeverria, L. Molina, V. Rivas, R. Sanchez, L. Pahl, R. Wallinger, J. Volz, J. Wacker, J. Fruehauf	304-156
Hepatitis C: A Disappearing Plague: A Tribute to the Clinical, Biologic and Molecular Advances in the Medical Care of Hepatitis C Virus Infection	David H. Van Thiel, Christopher M. Moore, Magdalena George	304-098
Co-Localization of Brunol2 with Nuage Proteins in Rat Spermatogenic Cells and Property of its Complex	Hiroka Yonetamari, Yuko Onohara, Sadaki Yokota	304-135
Contributors to Hepatic Drug Metabolism in Early Life	Karel Allegaert, Ann Smits, Gunnar Nauelaers	304-107
Retinopathy of Prematurity: Risk Factors and Clinical Management in a Cohort of ELBW Infants	Karel Allegaert, Sophie Vanhaesebrouck, Christine Vanhole, Ingele Casteels	304-119
Expression of a Testis Specific Nuclear Protein, GENA, in Mouse Testis During Spermatogenesis. A Quantitative and Qualitative Immunoelectron Microscopic Analyses	N. Inoue, Y. Onohara, H. Tanaka, S. Yokota	304-137
Course and Outcome of Pregnancy after the Heart Surgery	Snezana Plesinac, Igor Pilic	304-111

Break: 14:00-14:30

CONFERENCE ROOM A': 14:30-17:30

AICT Special Session: Recent Developments in Multivariate Analysis

Chair: Metin Demiralp

A Gentle Introduction to High Dimensional Model Representation Under Nonproduct Type Weights	Metin Demiralp	210-171
Array Flattening Based Univariate High Dimensional Model Representation (AFBUHDMR)	Emre Demiralp, Metin Demiralp	210-170
Weight Optimization in Enhanced Multivariate Product Representation (EMPR) for Given Supports at the Fluctuation Free Integration Limit	Ayla Okan, N. A. Baykara, Metin Demiralp	210-137
Conic Transformational High Dimensional Model Representation In Comparison With Hermite-Pad/e Approximants	Zeynep Gundogar, N. A. Baykara, Metin Demiralp	210-136
Function Flattening Transformational High Dimensional Model Representation	N. A. Baykara, Metin Demiralp	210-140
Weighted Singular Value Decomposition for Folded Matrices	Suha Tuna, N. A. Baykara, Metin Demiralp	210-143
Towards A New Multiway Array Decomposition Algorithm: Elementwise Multiway Array High Dimensional Model Representation (EMAHDMR)	Muzaffer Ayvaz, Metin Demiralp	210-144
High Dimensional Model Representation (HDMR) Based Folded Vector Decomposition	Letisya Divanyan, Metin Demiralp	210-135
Multivariable Function Approximation by Using Fluctuationlessness Approximation Applied on a Weighted Taylor Expansion with Remainder Term	Ercan Gurvit, N. A. Baykara, Metin Demiralp	210-139

CONFERENCE ROOM B': 14:30-17:30

CSCS Session: Advances on Signal Processing

Chair: Milan Stork, Seongsoo Lee

Selection of the Most Suitable Measurement Path for Router Abnormality Detection	Atsuo Tachibana, Takashi Oie, Shigehiro Ano, Atsushi Koike, Hitomi Murakami	210-159
The Influence of the Noise on Localization by Image Matching	Hiroshi Ito, Mayuko Kitazume, Shuji Kawasaki, Masakazu Higuchi, Atsushi Koike, Hitomi Murakami	210-128
The Contours of Arterial Pulsations in the Blood Pressure Cuff are Hemodynamic Waveforms Rather than Oscillations	J. Jilek, M. Stork	210-222
Assessments of Grade Crossing Warning and Signalization Devices – Driving Simulator Study	Petr Bouchner, Stanislav Novotny, Roman Pieknik, Ondrej Sykora	210-301

Transmission Characteristics of the Human Body	Petr Kopecek	210-175
A Synthetic Impulse Noise Environment for DSL Access Networks	Radu Dragomir, Sorin Puscoci, Dorina Dragomir	210-198
Design of Context-Aware Exercise Measurement SoC Based on Electromyogram and Electrocardiogram	Seongsoo Lee	210-196
Lv's Distribution for Time-Frequency Analysis	Shan Luo, Xiaolei Lv, Guoan Bi	210-197
The Evaluation of the Error Characteristics of Multiple GPS Terminals	Yuki Odaka, Shinya Takano, Yusuke In, Masakazu Higuchi, Hitomi Murakami	210-127
Comic Image Category Classification Using Local Features	Yusuke In, Nakamura Kentaro, Masakazu Higuchi, Jonah Gamba, Atushi Koike, Hitomi Murakami	210-158

CONFERENCE ROOM C': 14:30-17:30

USCUDAR Session: Sustainable Development I

Chair: Diana Cotoros, Gozen Guner Aktas

Performance of WEEE Management System in Romania	Carmen Nadia Ciocoiu, Daniela Liliana Hincu, Razvan Catalin Dobrea, Sofia Elena Colesca	210-290
Correlative Analysis of Energy Efficiency in Urban Buildings	Diana Cotoros, Mihaela Baritz, Gheorghe Bacanu	210-233
Sustainable Cities or Cities without Future - European Innovative Experience: The Center of Beijing EC2	Francesco Rossi	210-099
Sustainable Approaches in Shopping Center Public Interiors: Lighting and Finishing Materials	Gozen Guner Aktas	210-303
Analysis of Heating Energy of Ventilation Systems in Non-Residential Passive Houses in Estonia	Hendrik Voll, Indrek Raide	210-220
The Conversion of Agricultural Lands into Built Surfaces in Romania	I. C. Ioja, D. A. Onose, M. R. Nita, G. O. Vanau, M. Patroescu, A. A. Gavriliadis, I. Saghin, R. Zarea	210-234
The Endowment of Residential Spaces with Domestic Appliances in Bucharest – Indicator in Environmental Quality Assessment	I. C. Ioja, M. R. Nita, C. Ciocanea, A. Cucu, D. Onose, A. D. Ioja	210-249
Evaluation of Environmental Impact Caused by New Residential Areas in the Bucharest Metropolitan Area	L. Niculita, I. C. Ioja, A. C. Tudor, G. Pavelescu, A. D. Ioja	210-250
Scientific Investigation in Spatial Planning of the Baltic Region	Tatjana Staube, Ineta Geipele	210-252

Coffee-break: 17:30-18:00

CONFERENCE ROOM A': 18:00-20:00

WORLD MEDICAL Session: Advances on Neurology

Chair: Josef Finsterer, Wlodzimierz Klonowski

Electroencephalographic Edge Frequency at Professional Sportsmen	D. Enescu Bieru, M. L. Calina, E. Lica, M. Dragomir	304-167
Vasculopathy in Mitochondrial Disorders	Josef Finsterer	304-114
Assessing Cardiovascular Reaction to Antiarrhythmic Drugs using Higuchi's Fractal Dimension	Michal Pierzchalski	304-162
Parkinson Disease Diagnosis using Empirical Mode Decomposition	Pawel Stepien	304-163
New Method of Symbolic Analysis of Heart Rate Variability in Atrial Fibrillation	Robert A. Stepien	304-164
Application of New Non-Linear Dynamics Methods in Biosignal Analysis	Wlodzimierz Klonowski	304-154
Personalized Neurological Diagnostics from Biomedical Physicist's Point of View	Wlodzimierz Klonowski	304-159

CONFERENCE ROOM B': 18:00-20:00

WORLD MEDICAL Session: Advances on Pathology and Surgery I

Chair: Abdul Jalil Nordin, Anthony Lucci

Imaging Pulmonary Aspergillosis using 18F-Fluorodeoxyglucose Biomarker in Positron Emission Tomography Computed Tomography	Abdul Jalil Nordin, Noraini Abdul Rahim, Zaid Fatah Azman, C. E. Popescu, G. Cabrini, L. Minniti, E. Gay, C. Rossetti	304-165
Circulating and Disseminated Tumor Cells after Neoadjuvant Chemotherapy in Primary Breast Cancer	Carolyn Hall, Savitri Krishnamurthy, Ashutosh Lodhi, Anirban Bhattacharyya, Amber Anderson, Henry Kuerer, Isabelle Bedrosian, Balraj Singh, Anthony Lucci	304-153
Harmonic Structures for Environmental Xenobiotic Absorption Kinetics	Cornelia A. Bulucea, Corina C. Brindula, Nikos E. Mastorakis, Carmen A Bulucea, Andreea C. Jeles	304-158
Pathology of Wound Healing: Chondroitin Sulfate Synthase 1 Regulates the Expression and Activity of Caspase 1	George K.-C. Au-Yeung, Jia Lu, Shabbir M. Mochhala, Boon-Huat Bay, George W. Yip	304-168
Over Expression of Metalloproteinase-1 in Human Colonic Carcinomas and its Prognostic Value	Lea Rath-Wolfson	304-127
Clinicopathological Correlation of Peroxiredoxin I in Breast Cancer	Pei-Jou Chua, Eng-Hong Lee, Chunhua Guo, George W-C Yip, Puay-Hoon Tan, Boon-Huat Bay	304-144

Low Level Laser Therapy Enhances Cellular Cultures from Femur Bone Fractures	Valeria Sella, Paula Machado, Maria Jose Morsoleto, Fernando Bomfim, Milton Chohfi, Helio Plapler	304-103
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CONFERENCE ROOM C': 18:00-20:00

USCUDAR Session: Green Development, Green Structures and Clean Cars

Chair: Catalin Popescu, Ramesh Agarwal

Impact Measurement for Civitas Success Project	Catalin Popescu, Augustin Mitu, Daniela Uta	210-279
The Dynamic Model for Optimal Oil Extraction Process Management	M. Bulearca, C. Popescu, M. S. Muscalu, C. Ghiga	210-245
Material Optimization of Low-Energy Flats Using the LCA Eco-Indicator 99 Method: Impact of Materials and EOL	M. Buyle, A. Audenaert, S. H. De Cleyn	210-153
Contemporary Private Home-Gardens in the City of Poznan and its Surroundings	Marzena Banach	210-190
Line Emission Load Modeling from Mobile Sources in Time	Premysl Derbek, Pavel Hrubes	210-311
Sustainable Entrepreneurship and Innovations for Transitioning the Small and Medium Size Manufacturing Firms to Green Enterprises	Ramesh K. Agarwal	210-273
Pyrolysis Kinetic Models of Infectious Hospital Waste: Syringe and Cotton	Samorn Hirunpraditkoon, Woranuch Jangawang, Kaltima Phichai	210-183

2nd Day, September 27, 2011

Plenary Lecture 10: 09:00-09:30, Room A'



Suggestion to Add Cushing's Syndrome to the List of the Diseases with High Cardiovascular Risk in Relevant Guidelines
by Assoc. Prof. Goran Pante Koracevic, University of Nis, SERBIA.

Plenary Lecture 11: 09:00-09:30, Room B'



Laboratory Production of Mammalian Embryos
by Assoc. Prof. Saber Mohamed Abd Allah, Beni-Suef University, EGYPT.

Plenary Lecture 12: 09:00-09:30, Room C'



New Regulators of Ovarian Functions
by Assoc. Prof. Alexander V. Sirotkin, Research Centre of Animal Production Nitra, SLOVAKIA.

Plenary Lecture 13: 09:30-10:00, Room A'



A Method to Calculate the Parameters of Non-Linear Esprv in the Ventricles
by Prof. Rachad M. Shoucri, Royal Military College of Canada, CANADA.

Plenary Lecture 14: 09:30-10:00, Room B'



Management of High Output of Enterocutaneous Fistulas with a Vacuum Compaction Device
by Prof. Daniel E. Wainstein, University of Buenos Aires, ARGENTINA.

Plenary Lecture 15: 09:30-10:00, Room C'



Hepatitis C Infection in Man: A Disappearing Plague as a Result of the Interactions between Virologists, Pharmacologists, Geneticists and Clinicians
by Prof. David H. Van Thiel, Rush University Medical Center, USA.

Plenary Lecture 16: 10:00-10:30, Room A'



Advances in Laser Surgery
by Prof. Helio Plapler, Federal University of Sao Paulo, BRAZIL.

Plenary Lecture 17: 10:00-10:30, Room B'



Antitumor Drug (Methotrexate) Induced Small Intestinal Toxicity
by Prof. Toshiharu Horie, Chiba University, JAPAN.

Plenary Lecture 18: 10:00-10:30, Room C'



On a State Space Energy Based Generalization of the Nose -
Hoover Non - Hamiltonian Dynamics
by Prof. Milan Stork, University of West Bohemia, Plzen (RICE),
CZECH REPUBLIC

Coffee-break: 10:30-11:00

CONFERENCE ROOM A': 11:00-13:00

CSCS Session: Automatic Control

Chair: S. M. Lee, Petr Bouchner

Instrumentation & Control Architecture Applied for a Hydrogen Isotopes Storage System	Eusebiu Ilarian Ionete, Bogdan Monea	210-199
Nonlinear Feedback Model Predictive Control for Constrained Lur'e Systems	Ju H. Park, H. Y. Jung, S. M. Lee	210-211
The Compare of Several Variants of Flexible Members with Electromagnetic Elements for Robots with Variable Joint Stiffness	P. Benes, J. Fort, M. Pittermann	210-299
Modification of the Segmentation Based on Graph Cut Method	P. Karch, I. Zolotova	210-302
Development of Advanced Driving Simulator: Steering Wheel and Brake Pedal Feedback	Petr Bouchner, Stanislav Novotny	210-298
Decentralized Control Structure Design A Case Study	S. Akraminejad, M. R. Hojjati, M. Razmdideh, A. Shokrgu	210-157

CONFERENCE ROOM B': 11:00-13:00

WORLD MEDICAL Session: Advances on Pathology and Surgery II

Chair: **Camelia Szuhaneck, Helio Plapler**

Evaluation of Esthetic Parameters Following Orthognathic Surgery	Camelia Szuhaneck, Eduard Gidea Paraschivescu, Adriana Muntean, Roxana Rugina	304-173
Systematized Management of Postoperative Enterocutaneous Fistulas. A 14 Years Experience	D. E. Wainstein, D. Delgado, M. Irigoyen, A. Sanchez, P. Sisco	304-142
Surgical-Orthodontic Treatment in Class III Skeletal Anomalies	Eduard Gidea Paraschivescu, Camelia Szuhaneck	304-171
Different LLLT Energy Levels on the Viability of Randon Skin Flaps in Rats	Ivaldo Esteves Junior, Igor Bordello Masson, Helio Plapler	304-117
Survival Benefit of Surgical Intervention for the Treatment of Pathological N2 Non-Small Cell Lung Cancer	Masanori Kaneda, Katsutoshi Adachi, Tomohito Tarukawa	304-118
Tuberculosis - A Common Disease with Uncommon Oral Features Report of Two Cases with a Detailed Review of Literature	Shamimul Hasan, Mohd. Abbas Khan	304-149

CONFERENCE ROOM C': 11:00-13:00

USCUDAR Special Session: Development of Municipalities and Regions

Chair: **Tomas Kala**

An Analysis of the Selected Disparities of Small Municipalities in the Region of Novy Bydzov	Hana Mohelska	210-185
Problems with Evaluation of Benefits and Costs from Advanced Technology Utilization	Libuse Svobodova	210-281
E-Learning as an Effective Tool in the Process of Education of Municipalities Management	Marcela Sokolova	210-210
Importance of Genius Loci in Destination Management by Shared Vision	Michal Trousil, Veronika Jasikova, Petra Maresova	210-206
Method for Evaluating the Performance of Clusters in the Czech Republic	Petra Maresova, Veronika Jasikova, Michal Trousil	210-145
Research on the Satisfaction of the Population with the Local Government in Municipalities in the Czech Republic	Tomas Kala	210-200

Break: 13:00-13:30

CONFERENCE ROOM A': 13:30-16:30

AICT Session: Computer Applications on Telecommunications

Chair: Alwyn Hoffman, Roman Jasek

Broadband Internet Access for Rural Africa: Finding a Viable Model	Alwyn J. Hoffman, Dawid P. De Wet	210-217
Accessing Information Systems with Mobile Devices and Information Security	Blaz Markelj, Igor Bernik	210-192
A New Search Mechanism for Unstructured Peer-to-Peer Networks	Chia-Hung Lin, Sun-Yuan Hsieh	210-240
Launching Distributed Denial of Service Attacks by Network Protocol Exploitation	Jasek Roman, Benda Radek, Vala Radek, Sarga Libor	210-244
AHSPeR: Adaptive Hypermedia System Oriented toward Personalization of Readings Plans	M. Giugni, F. Grimon, J. Fernandez, J. Monguet, A. Guerra	210-177
Analysis of a Telemonitoring System based on a Bluetooth Body Area Network using Smartphones	M. J. Moron, A. Gomez-Jaime, J. R. Luque, E. Casilari, J. A. Gazquez	210-113
A New Approach Using Ants Algorithm to Optimize Load Balancing and Prioritization Process In-Dependent and Independent Models for the Scheduling Problem in Distributed Grid Networks	M. Vaziri, H. Rashidi	210-268
A Support System for Web Service Integration Based on User Profiles	Tatsuya Okabe, Keinosuke Matsumoto, Naoki Mori	210-173
Visual Programming Language in Geographic Information Systems	Zdena Dobesova	210-292
Time Measurement Synchronization using GPS Units	Zdenek Slanina, Vladimir Kasik, Karel Musil	210-297

CONFERENCE ROOM B': 13:30-16:30

WORLD MEDICAL Session: Advances on Cardiology

Chair: Anibh Martin Das, Abdul Jalil Nordin

Inborn Errors of Metabolism and the Heart	A. M. Das, S. Illsinger	304-145
Molecular Imaging in the Clinical Evaluation of Mitochondrial Function In Myocardium : The Potential Role of Integrated Positron Emission Tomography Computed Tomography (PET/CT) in Cardiac Imaging	Abdul Jalil Nordin, Wan Himratul Azliza Wan Harun, Ahmad Zaid Fatah Azman, Ahmad Fazli Abdul Aziz, Fathinul Fikri Ahmad Saad, Zul Hilmi Yaakob, Annuar Rapaie , Wan Azman Wan Ahmad	304-138

Melatonin Level Modification after Ramipril Treatment for Hypertension	Corina Grigore, Irina Stoian, Ovidiu Grigore, Luminita Dawkins, Dan Isacoff, Ion V. Bruckner	304-152
Significance of “Beta Blocker Rebound Phenomenon” and New Suggestions how to Avoid it	Goran Koracevic	304-116
Suggestion to add Cushing’s Syndrome to the List of the Diseases with High Cardiovascular Risk in Relevant Guidelines	Goran Koracevic	304-113
The Place of Digoxin/Digitalis Cardiac Agent/ Today in the Treatment of Elderly Population: The Challenges of Undefined Dose Effect Relationship and State of the Art	H. Tesfaye	304-097
Non-Thrombotic Neurological and Cardiac Manifestations: In a Cohort of Serbian Patients with Primary and Secodary Antiphospholipid Syndrome	Ljudmila Stojanovich, Aleksandra Djokovic, Milica Kontic, Dusica Smiljanic, Nenad Ilijevski, Vladimir Bojovic, Dragomir Marisavljevic	304-104
A Method to Calculate the Parameters of Non-Linear ESPVR in the Ventricles I	Rachad M. Shoucri	304-147
A Method to Calculate the Parameters of Isovolumic Curves in the Ventricles II	Rachad M. Shoucri	304-148

CONFERENCE ROOM C’: 14:00-16:30

AICT Session: Modelling and Simulation

Chair: Daewon Kim, Tomas Brandejsky

Automatic Control Method of DDoS Defense Policy through the Monitoring of System Resource	Daewon Kim, ByoungKoo Kim, Ikkyun Kim, Jintae Oh, Jongsoo Jang, Hyunsook Cho	210-180
Spatial-Temporal Data Evaluation	Dana Klimesova, Eva Ocelikova	210-241
Simulation Scenarios of Employment on the Romanian Labor Market	Madalina E. Andreica, Amalia Cristescu, Speranta Pirciog	210-274
A Knowledge-Based Framework for the Support of Sensor Web Deployment Using Multi-Agent Geo-Simulation	Mehdi Mekni, Normand Bergeron, Hedi Haddad, Bernard Moulin	210-164
Car Dynamics Model - Design for Interactive Driving Simulation Use	Petr Bouchner, Stanislav Novotny	210-312
Mastermind – Method of the System Approach in the Algorithm Development and Computer Simulation	Stepan Hubalovsky	210-188
Fault Diagnosis for Hypercube-Like Networks	Tai-Ling Ye, Sun-Yuan Hsieh	210-242
Multi-Layered Evolutionary System suitable to Symbolic Model Regression	Tomas Brandejsky	210-255

Coffee-break: 16:30-17:00

SEPTEMBER 27, 19:00: CONFERENCE BANQUET

3rd Day, September 28, 2011

Plenary Lecture 19: 09:00-09:30, Room A'



Collagen I Scaffold and Valve Interstitial Cells a Promising Approach for Heart Valves Tissue Engineering
by Dr. Frantisek Straka, Academy of Sciences, CZECH REPUBLIC.

Plenary Lecture 20: 09:30-10:00, Room A'



Application of Growth Factors to Anterior Cruciate Ligament Surgery
by Prof. Harukazu Tohyama, Hokkaido University School of Medicine, JAPAN.

Plenary Lecture 21: 09:30-10:00, Room B'



Course and Outcome of Pregnancy after the Heart Surgery
by Assoc. Prof. Snezana Plesinac, University Belgrade, SERBIA.

Plenary Lecture 22: 09:30-10:00, Room C'



Energy Demand in Transport and Environmental Impact
by Dr. Carmen M. Lungoci, Transilvania University of Brasov,
ROMANIA.

Plenary Lecture 23: 10:00-10:30, Room A'



Impact measurement for Civitas Success Project
by Prof. Catalin Popescu, University of Oil and Gas from Ploiesti,
ROMANIA.

Plenary Lecture 24: 10:00-10:30, Room B'



Inborn Errors of Metabolism and the Heart
by Prof. Anibh M. Das, Clinic for kidney-, liver- and metabolic
diseases, GERMANY.

Plenary Lecture 25: 10:00-10:30, Room C'



Energy Saving Projects and their Profitability Analysis
by Prof. Gheorghe Bacanu, University Transilvania of Brasov,
ROMANIA.

Plenary Lecture 26: 10:30-11:00, Room A'



Residential Areas - Key for Sustainable Development of Urban Areas in the Framework of Current Environmental Changes
by Assoc. Prof. Cristian Ioja, University of Bucharest, ROMANIA.

Plenary Lecture 27: 10:30-11:00, Room B'



Problems of Interaction between Operator and Artificial System
(with a Special Focus on Vehicle Drivers)
by Prof. Petr Bouchner, Czech Technical University in Prague,
CZECH REPUBLIC.

Plenary Lecture 28: 10:30-11:00, Room C'



The Place of Digoxin/digitalis Cardiac Agent/ Today in the Treatment of Elderly Population: The Challenges of Undefined Dose Effect Relationship and State of the Art
by Dr. H. Tesfaye, Charles University, CZECH REPUBLIC.

Coffee-break: 11:00-11:30

CONFERENCE ROOM A': 11:30-14:00

CSCS Session: Circuit Elements and Design

Chair: Chang-Jun Ahn, Julius Foit

Development of RF Energy Harvesting and Charging Circuits for Low Power Mobile Devices	Chang-Jun Ahn	210-216
Electronically Adjustable Slot Function Equalization	Julius Foit, Jan Novak	210-130
Accurate Modeling of Unusual Electronic Circuit Elements with Artificial Neural Networks	Ladislav Pospisil, Josef Dobes, Abhimanyu Yadav	210-253
A Buck Converter for DVS Compatible Processors in Mobile Computing Applications Using Fuzzy Logic Implemented in a RISC Based Microcontroller	Monaf S. Tapou, Hamed S. Al-Raweshidy, Maysam Abbod, Manal J. Al-Kindi	210-221
Influence of Voltage Drop to Electric Drive with Induction Motor and Voltage Sourced Inverter	P. Benes, J. Fort, M. Pittermann	210-310
Tests and Measurements of Electrical and Optical Characteristics for CMOS Image Sensors	Seongsoo Lee	210-194
Standardization of Semiconductor IP Coding, Evaluation, Specification, and Registration	Seongsoo Lee, Soon-II Yeo	210-193
Transfer of Information in Closed Regulated Circuit in Minimally Invasive Surgery	Vladimir Jehlicka	210-189

CONFERENCE ROOM B': 12:00-14:00

AICT Session: Business and Economics Software

Chair: Petra Maresova, Bronislav Chramcov

A Re-Examination of Okun's Law in the Presence of the Shadow Economy. An Empirical Investigation for the Case of United States	Adriana AnaMaria Alexandru, Ion Dobre, Catalin Ghinararu	210-278
Factors Influencing Employment in the EU	Denisa Vasilescu, Larisa Aparaschivei, Speranta Pirciog	210-266
Advanced Technology for Management Support	J. Nemecek, K. Cebisova, J. Hribik	210-269
In Pursuit of Knowledge-Diffusion & Hyper-efficient Operations-Management: A Total Quality Management Perspective of Computer integrated manufacturing(CIM) at Aviation Smart-Factory	M Asif Rashid, Gokcen Yilmaz	210-151

Decision-Making in the Knowledge Processing in Enterprises in the Czech Republic	Petra Maresova, Josef Drahokoupil	210-147
Modelling of the Logistic System with Shared Interoperation Buffer Stores	Robert Bucki, Bronislav Chramcov	210-169

CONFERENCE ROOM C': 12:00-14:00

USCUDAR Session: Sustainable Development II

Chair: Peter Mikulecky, Nur Ayalp

Motives and Modes of Indigenous Knowledge Management	Motives and Modes of Indigenous Knowledge Management	210-219
Sustainability of Authentic Cultural Tourist Setting: Traditional Turkish House Interiors	Nur Ayalp, A. Muge Bozday	210-263
The Czech Republic on the Way to Sustainable Transport?	Oldrich Hajek, Jiri Novosak, Sarka Hrabnova, Milan Skarka, Lenka Smekalova	210-277
The Role of ITS Architecture and Standardization in Achieving Sustainable Transport Development	Petr Bures, Zuzana Belinova	210-282
Consumer Decision Making in the Area of Insurance Products in the Czech Republic Compared with Other Countries	Petra Maresova, Josef Drahokoupil	210-133
2D Localization and Threat Estimation of Noxious Gas Source Originating from Buried Landfills	Saurav Mitra, Kushal Tuckley, Siddhartha P. Duttagupta	210-272

Coffee-break: 14:00-14:30

CONFERENCE ROOM A': 14:30-17:30

AICT Session: Information Science and Applications

Chair: Asker Ali Abiyev, Cosmin Poteras

The Correlation of Abiyev's Balanced Square with Periodic Law	Asker Ali Abiyev	210-132
New Identity of an $\pm bn$ Expression	Asker Ali Abiyev	210-119
A Multi-Criteria Approach for Assessment of Agricultural Systems in Context of Sustainable Agriculture	Constanta Zoie Radulescu, Marius Radulescu, Adrian Turek Rahoveanu, Magdalena Turek Rahoveanu, Silviu Beciu	210-203
A State Machine-Based Parallel Paradigm Applied in the Design of a Visualization and Steering Framework	Cosmin M. Poteras, Mihai L. Mocanu	210-265

Linear Electromechanical Actuator as a Replacement of Hydraulic Cylinder for Electric Motion Platform for Use in Simulators	Evzen Thondel	210-314
CRM and Cloud Computing	J. Nemecek, L. Vankova	210-270
Algorithms for Time Series Comparison	Jiri Fejfar, Arnost Motycka, Stepan Filipek	210-248
Establishing Distance Education: The Tools, Challenges and Experiences	Lejla A. Bexheti, Marika A. Trpkovska, Arbana B. Kadriu	210-179
Magnitooptic Properties of the Pb(1-x)Mn(x)Te Semimagnetic Semiconductors' Thin Films	M. Mehrabova, T. G. Ismayilov, I. R. Nuriyev	210-117
DatabaseExplorer - Open Source Database Management Tool	Peter Janku, Michal Bliznak	210-228
Improvement on Shortest Path Algorithm in Tactical Decision Support Systems	Petr Stodola, Jan Mazal	210-218