

November 21, 2011, Monday

8:00 -16:00 Registration

9:00 – 9:20 Opening Ceremony

Room F09

9:20 – 10:15 Plenary Session I

Room F09

Session Chair: **Imre J. Rudas**

Major Challenges in Computational Intelligence and Informatics for Success of Future Space Missions

Antal K. Bejczy

10:15 – 11:00 Plenary Session II

Room F09

Session Chair: **Imre J. Rudas**

Network Q-Learning Controls Prevent Cyber Intrusion Risks: Computational Intelligence, Communications, and Control Synergy

Georgi Dimirovski

11:00 – 11:15 Coffee break

11:15 – 11:45 Invited talk

Room F09

Session Chair: **János Fodor**

ANDINO: Automata Network Model for the Diffusion of Nitric Oxide in Biological and Artificial Neural Systems. A Preliminary Study

Suárez-Araujo C. P., Fernández-López P., García-Báez P.

Universidad de Las Palmas de Gran Canaria, Spain

11:45 – 12:30 Parallel Session A

Room F09

Session Chair: **János Fodor**

11:45 Inequalities for Integrals Based on Nonadditive Measures

Endre Pap

University of Novi Sad, Serbia, and

Óbuda University, Budapest, Hungary

12:00 Project Selection with Interval-Valued Fuzzy Numbers

Christer Carlsson*, Robert Fullér **, József Mezei***

** IAMS, Åbo Akademi University, Finland*

*** Óbuda University, Budapest, Hungary*

**** Turku Centre for Computer Science, Åbo, Finland*

12:15 Uninorms - State of the Art with Recent Results

Sándor Jenei

University of Pécs, Hungary

Johannes Kepler University, Linz, Austria

11:45 – 12:30 Parallel Session B**Room F08**Session Chair: **Zoltán Puklus**

- 11:45 Controlled Bidirectional Energy Transfer by Ultracapacitors in Electric Drive
Zoltán Puklus, A. Fehér
Széchenyi István University, Győr, Hungary
- 12:00 Small Qualitative Talking with Members of Economic Softbot Population
Ladislav Andrášik
University of Economics, Bratislava, Slovakia
- 12:15 TS Fuzzy Observer-based Residual Generators for a Class of Nonlinear Systems
D. Krokavec, A. Filasová, V. Hladký
Technical University of Košice, Slovakia

11:45 – 12:30 Poster Session

- A New Anti-Collision Method for RFID Systems
Yinghua Cui, Huiyang Wang
Beijing Information Science and Technology University, Beijing, China
- A Rough Set Theory-based Predictive Model for Stock Prices
Msizi Khoza, Tshilidzi Marwala
University of Johannesburg, South Africa

12:30 – 14:00 Lunch

14:00 – 15:30 Parallel Session C**Room F09**Session Chair: **Endre Pap**

- 14:00 Fuzzy Parameter Tuning in the Stabilization of an RFPT-based Adaptive Control for an Underactuated System
Teréz A. Várkonyi, József K. Tar, Imre J. Rudas
Óbuda University, Budapest, Hungary
- 14:15 Trajectory-based Fuzzy Controller for Indoor Navigation
V. Raudonis, R. Maskeliunas
Kaunas University of Technology, Kaunas, Lithuania
- 14:30 Product Variation Sequence Modelling Using Feature Diagrams and Modal Logic
R. Burbaitė, R. Damaševičius, V. Štuikys, K. Bespalova, P. Paškevičius
Kaunas University of Technology, Kaunas, Lithuania
- 14:45 How Elderly Users of a Socially Interactive Robot Experience Adaptiveness, Adaptability and User Control
Marcel Heerink
Windesheim Flevoland University for Professional Education, The Netherlands
- 15:00 State Feedback Fuzzy Control Solution for BLDC Drives

Alexandra-Iulia Stînean*, Stefan Preitl*, Radu-Emil Precup*, Claudia-Adina Dragoș*, Mircea-Bogdan Rădac* and Emil M. Petriu**

** "Politehnica" University of Timișoara, Timișoara, Romania*

*** University of Ottawa, Ottawa, Canada*

15:15 An Adaptive Compression Algorithm for ECG Signals
Beatrice Arvinti, Alexandru Isar, Marius Costache
"Politehnica" University of Timișoara, Timișoara, Romania

14:00 – 15:30 Parallel Session D

Room F08

Session Chair: **Zhengmao Ye**

14:00 Comparative Study of Linear and Nonlinear Color Model Identification Based Optimal Feature Extraction
Zhengmao Ye*, Habib Mohamadian* and Yongmao Ye**
** Southern University, Baton Rouge, Louisiana, USA*
*** Liaoning Radio and Television Station, Shenyang, China*

14:15 Simulation of a Segregation Strategy in a Warehouse of Dangerous Goods by a Multi-Agent System
O. Gaci* and H. Mathieu**
** Petrel Research Team, Engineer School of Logistics - ISEL, Le Havre, France*
*** LITIS - Petrel Research Team, Engineer School of Logistics - ISEL, Le Havre, France*

14:30 Quantitative Comparison of Two Nonlinear Approaches for Synthetic Biometric Verification
Zhengmao Ye*, Habib Mohamadian* and Yongmao Ye**
** Southern University, Baton Rouge, Louisiana, USA*
*** Liaoning Radio and Television Station, Shenyang, China*

14:45 Justified Performance Measurement of Schema Matching Solutions
Balázs Villányi, Péter Martinek
Budapest University of Technology and Economics, Hungary

15:00 Spectral Feature Extraction and Characterization via Simple Linear and Nonlinear Technology Integration
Zhengmao Ye, Habib Mohamadian
Southern University, Baton Rouge, Louisiana, USA

15:15 Optimization of the Painting Problem by a Genetic Approach using Interval-Values
Lajos Zámbo, Benedek Nagy
University of Debrecen, Debrecen, Hungary

14:00 – 15:30 Poster Session

Appliance of Neural Networks in Basketball - Basketball Board for Basketball Referees
B. Markoski*, P. Pecev, L. Ratgeber***, M. Ivković* and Z. Ivanković***
** University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Serbia*
*** University of Novi Sad, Serbia*

*** *Ratgeber Academy, Pecz, Hungary*

Fuzzy Logic Controller Development for a Solid Oxide Fuel Cell SYSTEM

Jenica Ileana Corcau, Liviu Dinca, Teodor Lucian Grigorie

University of Craiova, Craiova, Dolj, Romania

Computing Economic Equilibria by a Homotopy Method

Zoltan Pap

Subotica Tech – College of Applied Sciences, Subotica, Serbia

15:30 – 16:00 Coffee break

16:00 – 17:30 Parallel Session E

Room F09

Session Chair: **Sándor Jenei**

16:00 Nonlinear Queue Management in TCP/IP Networks

Gyula Max

Budapest University of Technology and Economic, Hungary

16:15 Temperature and Climate Chamber Automated Control

Roland Szabó, Aurel Gontean, Ioan Lie

"Politehnica" University of Timisoara, Timisoara, România

16:30 Functional Decomposition Method Reveals the Number of Possible Specifications of Multi-Robot System

Vitālijs Komašilovs, Egils Stalidzāns

Latvia University of Agriculture, Jelgava, Latvia

16:45 Enhancement of Safety and Economy of the Vehicle Consideration of Delays and Disturbancelsatoon with the Consideration of Delays and Disturbances

András Mihály, Balázs Németh and Péter Gáspár

Budapest University of Technology and Economics, Hungary

17:00 Benchmark of Efficient Data Structures for Recognising Movable Objects

Andreas Bilke, Jürgen Sieck

HTW Berlin (University of Applied Sciences), Germany

17:15 Neural Models for an Intelligent Greenhouse – A CMAC Global Greenhouse Model

P. Eredics, K. Gáti, T. P. Dobrowiecki, G. Horváth

Budapest University of Technology and Economics, Hungary

16:00 – 17:30 Parallel Session F

Room F08

Session Chair: **Sebastian Hommel**

16:00 Comparing Possibilistically Multidimensional Risk Aversions

Irina Georgescu

Academy of Economic Studies, Bucharest, Romania

16:15 AAM-based Continuous Facial Expression Recognition for Face Image Sequences

Sebastian Hommel, Uwe Handmann
Hochschule Ruhr West, Germany

- 16:30 Credibilistic Index of Riskiness
I. Georgescu* and J. Kinnunen**
** Academy of Economic Studies, Bucharest, Romania*
*** Institute for Advanced Management Systems Research, Turku, Finland*
- 16:45 ISpace Robot Room for Improved Life Comfort
Balázs Tusor*, Annamária R. Várkonyi-Kóczy**
** Integrated Intelligent Systems Japanese-Hungarian Laboratory, Budapest, Hungary*
*** Óbuda University, Budapest, Hungary*
- 17:00 Uncertainty Modeling and Control Design Suspension of Variable-Geometry
Balázs Németh, Péter Gáspár
SZTAKI, Budapest, Hungary
- 17:15 Adaptive Backstepping for Trajectory Tracking of Nonlinearly Parameterized Class of Nonlinear Systems
Hakim Bouadi, F. Mora-Camino
Automation and Operational Research Laboratory (LARA) in the National Civil Aviation Institute, Toulouse, France
- 16:00 – Annual MFT meeting Room F07
- 18:00 Welcome Reception

November 22, 2011, Tuesday

8:00 -16:00 Registration

9:00 – 10:30 Parallel Session G Room F09
Session Chair: **Apostolos Tsagaris**

- 9:00 Intelligent Invariance Techniques for Music Gesture Recognition Based on Skin Modelling
Apostolos Tsagaris*, Sotiris Manitsaris*, Kosmas Dimitropoulos**, Athanasios Manitsaris***
**University of Macedonia, Thessaloniki, Greece*
***Centre of Research & Technology, Informatics & Telematic Institute, Thessaloniki, Greece*
****Universite Pierre et Marie Curie, ESPCI ParisTech, SIGMA Lab, Paris, France*
- 9:15 Building an E-Contract Management System Using Google Docs
Gabriela Visinari, Adrian Groza
Technical University of Cluj Napoca, Romania

9:30 Convergence Dynamics of Biochemical Pathway Steady State Stochastic Global Optimization
Ivars Mozga, Egils Stalidzans
Latvia University of Agriculture

9:45 User-Centered Design of Data Entry Forms for Semi-Structured Data
D. D. Nagy, B. Kővári
Budapest University of Technology and Economics, Hungary

10:00 Forecasting Total Health Expenditures with a Hybrid Heuristic Method
Cagdas Hakan Aladag* and Sibel Aladag**
** Hacettepe University, Ankara, Turkey*
*** Republic of Turkey Social Security Institution, Ankara, Turkey*

10:15 Analysis to Forecast The Spread of Phytophthora of Potato Leaf With Contour
Zoltán Horváth
University of Pécs, Hungary

9:00 – 10:30 Parallel Session H
Session Chair: Szilveszter Kovács

Room F08

9:00 Precision Improvement for a Tunneling Accelerometer by Using an Intelligent Controller to Close its Loop
T. L. Grigorie, J. Corcau, M. Lungu, I. R. Edu, R. Obreja
University of Craiova, Craiova, Romania

9:15 Advanced Approaches in Diagnostics of the Turbojet Engine MPM-20
T. Karol, V. Gašpar, Ladislav Madarász, Rudolf Andoga, Ladislav Főző, J. Judičák
Technical University of Košice, Košice, Slovakia

9:30 Forming Well-balanced Collaborative Learning Teams According to the Roles of Their Members: An Evolutionary Approach
V. D. Yannibelli, A. Amandi
ISISTAN Research Institute, UNCPBA, Tandil, Buenos Aires, Argentina
CONICET, Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina
Campus Universitario, Paraje Arroyo Seco, Tandil, Buenos Aires, Argentina

9:45 Performance Improvement of the Fuzzy Rule Interpolation Method LESFRI
Zsolt Csaba Johanyák
Kecskemét College, Kecskemét, Hungary

10:00 Infinite Horizon LQ Optimal Output Tracking from Development to Real Flight Tests
Péter Bauer, József Bokor
Computer and Automation Research Institute, Hungarian Academy of Sciences, Budapest, Hungary

10:15 Applying a New Similarity Measure between General Type-2 Fuzzy Sets to Clustering
Saida S. Mohamed, Areeg S. AbdAla

9:00 – 10:30 Poster Session

Using Cellular Automata to Model Social Networking Behavior

Robert Hunt*, Engin Mendi, and Coskun Bayrak*****, ***Computer Science Department, University of Arkansas at Little Rock*** *Computer Engineering Department, Istanbul Kultur University**, ***Little Rock, United States****Istanbul, Turkey*

Improving Learning Automata based Particle Swarm: An Optimization Algorithm

Mohammad Hasanzadeh, Mohammad Reza Meybodi and Saeed Shiry Ghidary*Amirkabir University of Technology, Tehran, Iran*

Guidelines on Accessible Web Portal Design

Dragica Radosav, Dijana Karuovic, Branko Markoski, Zdravko Ivankovic*University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Serbia*

A New Method to Improve the Particle Swarm Optimization using Cellular Learning Automata (CLAPSO)

M. J. Fattahi Hasan Abad*, S. M. Salari **, M. A. Saadatjoo **** *Islamic Azad University, Yazd, Iran*** *Elmi-Karbordi University, Yazd, Iran**** *University of Debrecen, Hungary*

10:30 – 11:00 Coffee break

11:00 – 12:30 Parallel Session I**Room F09**Session Chair: Márta Takács

11:00 Classifying Social Groups and Change Point Detection for Prioritizing Social Data

Kailas Dayanandan*, Jithendra Vepa****GAPG, **ASCG, Samsung India Software Operations, Bangalore, India*

11:15 A Lazy Evaluation Approach for Mobile Reasoning in DSSs

A. Minutolo*, **, M. Esposito* and G. De Pietro** *Institute for High Performance Computing and Networking, ICAR-CNR, Napoli, Italy*** *University of Naples, Naples, Italy*

11:30 Fuzzy Support Vector Machine in Credit Rating Systems

József Bozsik*Eötvös Loránd University, Budapest, Hungary*

11:45 Fuzzy Logic Point of View Applied to Diseases Caused by Dynamic Mutations

A. Savić*, K. Jovanović, J. Mihailović**, K. Radotić**** *Institute for Multidisciplinary Research, Belgrade, Serbia*** *University of Belgrade, Belgrade, Serbia*

12:00 Fuzzy Neural Networks Stability in Terms of the Number of Hidden Layers

Rita Lovassy*, László T. Kóczy, ***, László Gál**, **** and Imre J. Rudas***

** Óbuda University, Budapest, Hungary*

*** Széchenyi István University, Győr, Hungary*

**** Budapest University of Technology and Economics, Budapest, Hungary*

***** University of West Hungary, Szombathely, Hungary*

- 12:30 A Study on Local Binary Pattern for Automated Weed Classification Using Template Matching and Support Vector Machine
Faisal Ahmed*, **A. S. M. Hossain Bari****, **ASM Shihavuddin*****, **Hawladar Abdullah Al-Mamun******, **Paul Kwan*******
** Islamic University of Technology, Gazipur, Bangladesh*
*** Samsung Bangladesh R & D Center Ltd, Dhaka, Bangladesh*
**** Universitat De Girona (UDG), Girona, Spain*
*****, ***** The University of New England, Armidale, Australia*

11:00 – 12:30 Parallel Session J

Room F08

Session Chair: **László Kovács**

- 11:00 Mathematical Model and Numerical Simulations for Mechanic-Hydraulic Flow Controller
Liviu Dinca, Jenica Ileana Corcau, Teodor Lucian Grigorie
University of Craiova, Craiova, Dolj, Romania
- 11:15 Tabu Search Reconstruction of hv-convex Binary Contours Using Classic Ryser Algorithm and Smart Switching
Miklós Póth
Subotica Tech, Serbia
- 11:30 Some Structural Improvements of the OpenRTM Robot Middleware
Zoltán Krizsán, Szilveszter Kovács
University of Miskolc, Miskolc, Hungary
- 11:45 Mobile Robot Control Using Combined Neurfuzzy and Neural Network
Sasa A. Vukosavljev*, Dragan Kukolj, Istvan Papp*, Branko Markoski ****
** RT-RK Institute for Computer Based Systems, Novi Sad, Serbia*
*** University of Novi Sad, Novi Sad, Serbia*
- 12:00 A Simple Interface to the Virtual Collaboration Arena for MATLAB Applications
Dávid Vincze*, Szilveszter Kovács*, Péter Korondi, Péter Baranyi*****
** University of Miskolc, Miskolc, Hungary*
*** Budapest University of Technology and Economics, Budapest, Hungary*
**** Computer and Automation Research Institute of the Hungarian Academy of Sciences, Budapest, Hungary*
- 12:15 Pixel Area-based Target Distance Estimating and Corresponding Target Hitting Force Calculating Autonomous Robot Using Single Video Device
Astha Jain, Harshul Gandhi, Vikalp Paharia
MANIT Bhopal, India

11:00 – 12:30 Poster Session

Value-transformation for Monotone Prediction by Approximating Fuzzy Membership Functions

Tomáš Horváth*,****, **Alan Eckhardt****, **Krisztián Buza*****, **Peter Vojtáš****, **Lars Schmidt-Thieme**** *University of Hildesheim, Germany*** *Charles University in Pragu, Czech Republic**** *Budapest University of Technology and Economics, Hungary***** *Pavol Jozef Šafárik University in Košice, Slovakia*

Design and Implementation of Incremental Algorithm for Creation of Generalized One-Sided Concept Lattices

P. Butka*, **J. Pócsova*** and **J. Pócs***, *** *Technical University of Košice, Košice, Slovakia*** *Mathematical Institute, Slovak Academy of Sciences, Košice, Slovakia*

Model Predictive Speed Controller of Permanent Magnet Synchronous Machine

D. Zámečník, **L. Veselý***Brno University of Technology, Brno, Czech Republic*

12:30 – 14:00 Lunch

14:00 – 15:30 Parallel Session K**Room F09**Session Chair: **Jingwen Wu**

14:00 Parsimonious Gaussian Mixture Models of Diagonal Family for Binned Data Clustering: Mixture Approach

Jingwen Wu, **Hani Hamdan***SUPELEC, Department of Signal Processing and Electronic Systems, France*

14:15 Compound Local Binary Pattern (CLBP) for Robust Facial Expression Recognition

Faisal Ahmed*, **Emam Hossain****, **A. S. M. Hossain Bari***** and **ASM Shihavuddin******* *Department of CIT, Islamic University of Technology, Gazipur, Bangladesh*** *Department of CSE, Prime University, Dhaka, Bangladesh**** *Samsung Bangladesh R & D Center Ltd, Dhaka, Bangladesh***** *Universitat De Girona (UDG), Girona, Spain*

14:30 Granular Interval Type-2 Membership Functions and Modeling Application on a Nonlinear System

Cenk Ulu, **Müjde Güzelkaya**, **İbrahim Eksin***Istanbul Technical University, Istanbul, Turkey*

14:45 A New Deterministic Source Coding Method in Peer-to-Peer Systems

Attila Balaton, **Tamás Lukovszki**, **Ádám Agócs***Eötvös Loránd University, Hungary, Budapest*

15:00 On Types of Parallelism, Conflicts and Cooperation in Grammar Systems

Alica Kelemenová*Silesian University in Opava, Institute of Computer Science and*

Research Institute of the IT4Innovations Centre of Excellence, Opava, Czech Republic

- 15:15 ANFIS-based Parameter Estimation of One-Diode Equivalent Circuit Model of PV Modules
A. A. Kulaksız
Selcuk Universit., Konya, Turkey

14:00 – 15:30 Parallel Session L

Room F08

Session Chair: György Strausz

- 14:00 On Genetic Algorithm Methodology for Robust System Design
A. M. Shamsieva, V. U. Arkov
Ufa State Aviation Technical University, Ufa, Russia
- 14:15 Methodology of Implementing Information Technologies in Education
Zsolt Námesztovszki*, Márta Takács*, Dragana Glušac**
** University of Novi Sad, Hungarian Teacher Training Faculty, Subotica; and Óbuda University, Budapest, Hungary*
*** University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin*
- 14:30 An Integrated Intelligent Inventory Control System for a Marble Plant
Suat Kasap
Hacettepe University, Turkey
- 14:45 Soft Clustering Algorithms based on Neural Networks
Lenka Skovajsová*, Michal Rojček**
** Institute of Informatics, Slovak Academy of Sciences, Slovakia*
*** Catholic University in Ružomberok, Ružomberok, Slovakia*
- 15:00 An Ontology-based Rule Chaining Algorithm for Legal Expert Systems
András Förhécz* and György Strausz**
** Multilogic Ltd., Budapest, Hungary*
*** Budapest University of Technology and Economics, Hungary*
- 15:15 Adaptive Sliding Mode Control for Quadrotor Attitude Stabilization and Altitude Tracking
Hakim Bouadi*, S. Simoes Cunha, A. Drouin*** and F. Mora-Camino******
** Automation and Operational Research Laboratory (LARA) in the National Civil Aviation Institute-ENAC. Toulouse-France*
*** Federal University of Itajuba Brazil*
**** Automation and Operational Research Laboratory (LARA) in the National Civil Aviation Institute-ENAC*
***** National Civil Aviation Institute*

14:00 – 15:30 Poster Session

- Extending Mathematical Model of Permanent Magnet Synchronous Motors in alpha-beta Coordinate System for EKF
L. Vesely, D. Zamecnik

Brno University of Technology, Czech Republic

Organizing COBIT Control Objectives for Effective Information Technology Compliance

S. Topçu, B. Metin

Boğaziçi University, Istanbul, Turkey

Parameter Extraction of FMCW Modulated Radar Signals using Wigner-Hough Transform

Taylan Ozgur Gulum, Ahmet Yasin Erdogan, Tulay Yildirim, Lutfiye Durak Ata

Yildiz Technical University, Yildiz, Besiktas, İstanbul, Turkey

15:30 – 16:00 Coffee break

16:00 – 17:30 Parallel Session M

Room F09

Session Chair: **Zoltán Vámosy**

16:00 Determining Optimal Distribution of Transmitters in Heterogeneous Wireless Network by Using Genetic Algorithm
Marko Vučićević, Aleksandar Miljković, Dragan Samardžija, Dragan Kukolj
University of Novi Sad, Serbia

16:15 Parameter Optimization for BIRCH Pre-Clustering Algorithm
László Kovács, László Bednarik
University of Miskolc, Hungary

16:30 Multi-Criterion Mining Algorithm for Efficient Home Energy Management System
S. Veleva* and D. Davcev**
** University Ss. "Cyril and Methodius", Skopje, Macedonia*
*** University for Information Science and Technology, "St Paul the Apostol", Ohrid, Macedonia*

16:45 An Ethological Motion Capture System
Viktor Devecseri*, Antal Dóka, József Molnár* and Péter Tamás***
**Budapest University of Technology and Economics, Budapest, Hungary*
***Eötvös Loránd University, Budapest Hungary*

17:00 GPGPU-based Data Parallel Region Growing Algorithm for Cell Nuclei Detection
Sándor Szénási*, Zoltán Vámosy*, Miklós Kozlovsky**
** Óbuda University, Budapest, Hungary*
*** MTA SZTAKI, Budapest, Hungary*

17:15 Triadic Patterns of Friendships in YouTube Groups
Haris Memic, Alma Husagic-Selman, Kanita Hadziabdic
International University of Sarajevo, Bosnia and Herzegovina

16:00 – 17:15 Parallel Session N

Room F08

Session Chair: **Annamária R. Várkonyi-Kóczy**

16:00 Fuzzy Set-based Navigation's Area Application for Mobile Robots
István Nagy

Óbuda University, Budapest, Hungary

- 16:15 Evaluation of User Perceived Quality Based on User Behaviour
Hamid Reza Hasani, Naser Movahhedinia, Behrouz Shahgholi Ghahfarokhi
University of Isfahan, Iran
- 16:30 Improvement of the Colour Discrimination Ability of Colour Deficient People by
Modifying the Parameters of the Illumination
Ingrid Langer
Óbuda University, Budapest, Hungary
- 16:45 Swarm Intelligence-based Sizing Methodology for CMOS Operational Amplifier
Revna Acar Vural, Tulay Yildirim
Yildiz Technical University, Istanbul, Turkey
- 17:00 Automatic Control of Ball and Beam System Using Particle Swarm Optimization
Muhammad Asif Rana, Zubair Usman, Zeeshan Shareef
Lahore University of Management Sciences, Lahore, Pakistan

16:00 – 17:30 Poster Session

Application of Medical Thermography in The Diagnostics of Carpal Tunnel Syndrome

J. Živčák, Ladislav Madarász, R. Hudák
Technical University of Košice, Košice, Slovakia

Advanced Approaches in Modeling of Complex Electromechanical Systems

Ladislav Madarász, Rudolf Andoga, M. Češkovič, M. Laššák, M. Šmelko, Ladislav Főző
Technical University of Košice, Slovakia

Development of Autonomous Explorer Mobile Robot for a Specified Environment

Csongor Márk Horváth, Róbert Tamás Fekete
Budapest University of Technology and Economics, Budapest, Hungary

Óbuda University
Doctoral School for Applied Informatics

First PhD Student Workshop on Applied Informatics in Computational Intelligence

Parallel event at the 12th IEEE International Symposium on Computational Intelligence and Informatics

Workshop Chair: Gyula Hermann
Working language: English

November 22, Tuesday

14:15 – 15:30 First Workshop Session

Room F07

- 14:15 Modeling Loaded Starter Motor with Neural Network
V. Füvesi, E. Kovács
University of Miskolc, Miskolc, Hungary
- 14:30 Improvement for Anytime Systems with Modular Architecture
Dániel Kristóf Kiss*, ** Annamária R. Várkonyi-Kóczy*, András Rövid*
** Óbuda University, Budapest, Hungary*
*** Mentor Graphics Corp. Budapest, Hungary*
- 14:45 Inherited SAP Development Concepts Using Genuine IT Programming Tools
István Orosz*, Túri Balázs **, Tamás Orosz*
** Óbuda University, Hungary*
*** Budapest University of Economic Sciences and Public Administration*
- 15:00 Theory of the Biometric-based Technology in the Field of e-commerce
Arnold Őszi, Tibor Kovács
Óbuda University, Budapest, Hungary
- 15:15 Mobility and Multihoming Possibilities in Network Layer, Using Smartphones
Viktor Rébay
Óbuda University, Budapest, Hungary

15:30 – 16:00 Coffee break

16:00 – 17:00 Second Workshop Session

Room F07

- 16:00 Practical Application of Fuzzy Logic: Experiences and Current State in Software Engineering
Norbert Sram
Óbuda University, Budapest, Hungary
- 16:15 Risk Level Calculation for Body Physical Exercise with Different Fuzzy Based Methods
Edit Tóth-Laufer, Márta Takács

Óbuda University, Budapest, Hungary

- 16:30 Applying Prereduction to Reduce the Time Cost of TBL Algorithm
Zsolt Tóth, László Kovács
University of Miskolc, Hungary
- 16:45 Robust Fixed Point Transformations-based Model Reference Adaptive Control of
Inverted Pendulums
Teréz A. Várkonyi, József K. Tar, Imre J. Rudas
Óbuda University, Budapest, Hungary
- 17:30 Closing Ceremony and Invitation to CINTI 2012 Room F09
- 18:00 Banquet