SACI 2013

8th IEEE International Symposium on Applied Computational Intelligence and Informatics

Timișoara, Romania
May 23-25, 2013

FINAL PROGRAM
SACI 2013

8th IEEE International Symposium on Applied Computational Intelligence and Informatics

Timișoara, Romania

May 23-25, 2013
The pendrive proceedings will be provided to all registrants.

*All papers are reviewed by at least two reviewers.*

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http://conf.uni-obuda.hu/saci2013
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GENERAL INFORMATION

Date and Place

SACI 2013 will take place on May 23-25, 2013, at Faculty of Automation and Computers, „Politehnica” University of Timișoara, Romania.

Official Language

The official language of the symposium is English. All presentations, including discussions and submissions, must be made in the official language. No translation will be provided.

Proceedings

Each accepted paper reaching us in time will be published on pendrive Proceedings that will be distributed at the conference registration desk.

Presentation

OHP and data projector will be provided for oral presentation. Authors are asked not to use their own laptop, but bring the presentation on CD or USB drive.

Lunch and Reception

All registered participants are cordially invited for lunches and evening dinners.

Smoking

Please, be so kind to your lungs and your colleagues by not smoking in the building and social events of the symposium.
CARPATHIAN APPLIED MATHEMATICS WORKSHOP

Carpathian Applied Mathematics Workshop (CAMI 2013) is to be held on May 23-25, 2013 in Timisoara, Romania. CAMI 2013 is held in conjunction with the traditional SACI conference (8th IEEE International Symposium on Applied Computational Intelligence and Informatics).

Our goal is to promote international collaboration among mathematicians from the Carpathian Basin working in areas of applied mathematics or applications of mathematics in scientific and engineering disciplines. There is a great need for further exchange of ideas and cooperation among them.

http://conf.uni-obuda.hu/cami2013/

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INTELLIGENT MECHATRONICS WORKSHOP

Intelligent Mechatronics Workshop (IMEC 2013) is organized on May 23-25, 2013 in Timisoara, Romania in conjunction with the traditional SACI conference (8th IEEE International Symposium on Applied Computational Intelligence and Informatics).

http://conf.uni-obuda.hu/imec2013/
May 23, Thursday

8:00 – 13:00  **REGISTRATION**  Room A107

9:00 – 9:30  **OPENING CEREMONY**  Room A101 Aula

9:30 – 10:15  **PLENARY SESSION I**  Room A101 Aula

Approximation Properties and Continuous Differentiability of a Class of SISO Fuzzy Systems

*Barnabás Bede*
DigiPen Institute of Technology, Redmond, USA; Óbuda University

*Matthew P. Peterson*
DigiPen Institute of Technology, Redmond, USA

**Session Chair:**  *Imre J. Rudas*

10:15 – 11:00  **PLENARY SESSION II**  Room A101 Aula

Model-based Oscillometric Blood Pressure Estimation

*Voicu Groza*
University of Ottawa, Canada

**Session Chair:**  *Vladimir-Ioan Crețu*

11:00 – 11:20  **COFFEE BREAK**
11:20 – 13:00 PARALLEL SESSIONS ___________________

11:20 – 13:00 [T1] SESSION on Optimization Algorithms and Applications _________________ Room A 115

Session Chairs: Marius Marcu and Florin Dragan

Eneko Osaba, Roberto Carballedo, Fernando Díaz and Asier Perallos
Deusto Institute of Technology, University of Deusto, Bilbao, Spain

11:40 – 12:00 A Lighting Control System to Optimize Brightness Distribution on Working Places
Mitsunori Miki, Hisanori Ikegami, Akihiko Emi, Takuro Yoshii, Yohei Azuma, Kenta Yoshida
Doshisha University, Kyoto, Japan

12:00 – 12:20 nRobotic Mobile Robot Navigation Using Traffic Signs in Unknown Indoor Environments
Constantin Purcaru, Radu-Emil Precup, Daniel Iercan, Lucian-Ovidiu Fedorovici, Bogdan Dohangie, Florin Dragan
“Politehnica” University of Timisoara, Timisoara, Romania

Elisa Valentina Moisi¹, Benedek Nagy², Vladimir Ioan Cretu³
¹ University of Oradea, Romania
² University of Debrecen, Hungary
³ “Politehnica” University of Timisoara, Romania

12:40 – 13:00 Using Data Mining for Mobile Communication Clustering and Characterization
A. Bascacov*, C. Cernazanu** and M. Marcu**
* Lasting Software, Timisoara, Romania
** Politehnica University of Timisoara, Romania
11:20 – 13:00  [T2] SPECIAL SESSION on E-learning Technologies  
Room A 109

Session Chairs: Rita Ősz and Ciprian-Bogdan Chirila

11:20 – 11:40  New Wave for Learning with Mentor Teachers  
Istvan Simonics  
Óbuda University, Budapest, Hungary

11:40 – 12:00  The Role of Electronic and Virtual Learning Support Systems in the Learning Process  
György Molnár  
Budapest University of Technology and Economics, Hungary

12:00 – 12:15  A Dialog-based Game Component for a Competencies Based E-Learning Framework  
Ciprian-Bogdan Chirila  
University Politehnica of Timişoara, Romania

12:15 – 12:30  Adaptive Online Learning Environment and Web Usage Mining  
Péter Tóth  
Óbuda University, Hungary

12:30 – 12:45  New Methods of the Education in the E-learning’s Dimensions  
Rita Ősz*, Mariann Váraljai**  
* Óbuda University, Budapest, Hungary  
** College of Dunaújváros, Dunaújváros, Hungary

12:45 – 13:00  Moodle in Higher Education and at Óbuda University  
Franciska Hegyesi  
Óbuda University, Budapest, Hungary
[T3] SESSION on Applied Mathematics in Computer Science and Engineering _Room A 204

Carpathian Applied Mathematics Workshop (CAMI 2013)

Session Chairs: János Fodor and Adalbert Kovacs

11:20 – 11:40  
**New Approximations for DQPSK Transmission Bit Error Rate**
Árpád Baricz, Szilárd András, János Fodor

11:40 – 12:00  
**Sampling Bessel Functions and Bessel Sampling**
Dragana Jankov Maširević*, Tibor K. Pogány†, ‡, Árpád Baricz§, ‡ and Aurél Galántai‡
* University of Osijek, Croatia
† University of Rijeka, Croatia
‡ Óbuda University, Budapest, Hungary
§ Babeş-Bolyai University, Cluj–Napoca, Romania

12:00 – 12:20  
**Mathematical Expressiveness for Computational Network Interaction**
Stefano-Niko Orzen
Politehnica University of Timisoara

12:20 – 12:40  
**A Contribution to Modeling Sensor Communication Networks by Using Finite-Source Queueing Systems**
Tamás Bérczes, Béla Almási, János Sztrik, Attila Kuki
University of Debrecen, Hungary

12:40 – 13:00  
**A New Method for Minimization of Real Lipschitz Functions**
J. Abaffy, A. Galántai
Óbuda University, Budapest, Hungary
11:20 – 13:00  [TP1] POSTER SESSION on Control and Modeling in Mechatronics  
Ground floor

Intelligent Mechatronics Workshop (IMEC 2013)

Session Chairs: József Gáti and Radu-Emil Precup

Design and Verification of the Industrial Robot Effector with Use of Rapid Prototyping Method
Technical University of Kosice, Presov, Slovakia

Design and Experiments for Model-Free PI Control of DC Drives
* “Politehnica” University of Timisoara, Timisoara, Romania
** IT University of Copenhagen, Copenhagen, Denmark

Theory and Practice in Multi-Discipline Representations for Engineering Education
József Gáti and Gyula Kártyás
Óbuda University, Budapest, Hungary

2-DOF Control Solutions for an Electric Drive System under Continuously Variable Conditions
* “Politehnica” University of Timisoara, Timisoara, Romania
** University of Ottawa, Ottawa, Canada

Urban Traffic Congestion Prediction Based on Routes Information
Dan Pescaru
“Politehnica” University of Timisoara, Romania

Performance Enhancement of Galvanometer Scanners Using Extended Control Structures
Corina Anca Mnerie*,**, Stefan Preitl*, Virgil-Florin Duma**
* “Politehnica” University of Timisoara, Romania
** “Aurel Vlaicu” University of Arad, Romania
13:00 – 15:00  LUNCH BREAK  ______________ Casa Politehnicii 1

15:00 – 18:20  REGISTRATION  ______________ Room A107

15:00 – 16:40  PARALLEL SESSIONS  ______________

15:00 – 16:40  [T4] SESSION on Control Systems  __Room A 115

Session Chairs: Radu Vasiu and Gheorghe-Daniel Andreescu

15:00 – 15:20  Emulation of a Highway Bottleneck Using Leader-Follower
Formation Control
A. Chevalier, C. Copot, S. M. Cristescu, C. M. Ionescu, R. De
Keyser
Ghent University, Belgium

15:20 – 15:40  Estimation of Illuminance Sensor Positions and Improvement
of Energy Efficiency in the Distributed Control Lighting System
Mitsunori Miki, Kenta Yoshida, Yuya Hirano, Hisanori Ikegami
Doshisha University, Kyoto, Japan

15:40 – 16:00  Distributed Flow Controller for Mobile Ad-Hoc Networks
Gheorghe Mülec, Radu Vasiu, Flaviu Frigura-Iliasa
Politehnica University of Timisoara, Romania

16:00 – 16:20  V/f Control Strategy with Constant Power Factor for SPMSM
Drives, with Experiments
Cristina-Elena Coman, Sorin-Cristian Agarliță and Gheorghe-
Daniel Andreescu
“Politehnica” University of Timisoara, Timisoara, Romania

16:20 – 16:40  Model Validation, Simulation and Control for Ammonia
Synthesis Column
A. Cioloca, R. Both and R. Festila
Technical University of Cluj Napoca, Romania
15:00 – 16:40 [T5] SESSION on Pattern Recognition and Image Processing
Room A 109

Session Chairs: Dan Ionescu and Catalin Caleanu

15:00 – 15:20 Face Expression Recognition: a Brief Overview of the Last Decade
Cătălin-Daniel Căleanu
“Politehnica” University from Timișoara, Timișoara, România

15:20 – 15:40 Performance Evaluation of a Face Detection Algorithm Running on General Purpose Operating Systems
Emil-Ioan Voisan, Oscar Marginean, Radu-Emil Precup, Florin Dragan, Constantin Purcaru
“Politehnica” University of Timisoara, Timisoara, Romania

15:40 – 16:00 Face Identification Using Kinect Technology
Ana-Andreea Nagâț, Cătălin-Daniel Căleanu
“Politehnica” University of Timișoara, Timișoara, România

16:00 – 16:20 Image Classification Using Local Binary Pattern Operators for Static Images
Oana Astrid Vătămanu, Mircea Jivulescu
University of Medicine and Pharmacy “Victor Babes”, Timisoara, Romania

16:20 – 16:40 A New NIR Camera for Gesture Control of Electronic Devices
Dan Ionescu, Viorel Suse, Cristian Gadea, Bogdan Solomon
School of Electrical Engineering and Computer Science University of Ottawa, Ottawa, Canada
Bogdan Ionescu, Shahidul Islam
Mgestyk Technologies, Inc. Ottawa, Canada
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<td><strong>A Sublinear Differential Inclusion on Strip-Like Domains</strong></td>
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<td><strong>Csaba Farkas</strong></td>
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<td>Öbuda University, Budapest, Hungary</td>
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<td><strong>Alexandru Kristály</strong></td>
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<td>Babeș-Bolyai University, Cluj-Napoca, Romania, and Öbuda University,</td>
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<td>15:20 – 15:40</td>
<td><strong>A Stability Approach for Reaction-Diffusion Problems</strong></td>
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<td><strong>Fekete, I., Faragó, I.</strong></td>
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<td>Eötvös Loránd University, Hungary, &amp; MTA-ELTE Numerical Analysis and</td>
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<td>Large Networks Research Group</td>
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<td>15:40 – 16:00</td>
<td><strong>HITS-based Network Algorithm for Evaluating the Professional</strong></td>
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<td><strong>Skills of Wine Tasters</strong></td>
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<td><strong>András London and Tibor Csendes</strong></td>
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<td>16:00 – 16:20</td>
<td><strong>Hopf Bifurcations in a Mathematical Model of HIV-1 Infection</strong></td>
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<td><strong>Olivia Bundău, Adina Juratoni, Adalbert Kovacs</strong></td>
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<td>16:20 – 16:40</td>
<td><strong>A Martingale Approximation Result for GARCH Processes</strong></td>
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<td><em><em>László Gerencsér</em> and Zsanett Orlovits</em>*</td>
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<td>* Computer and Automation Research Institute of the Hungarian Academy of</td>
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<td><strong>Budapest University of Technology and Economics, Hungary</strong></td>
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15:00 – 16:40  [TP2] POSTER SESSION on Modeling, Monitoring and Prediction _______ ground floor

Session Chairs: Gyula Hermann and Mirela Toth-Taşcău

Diagnosis Parameters Used in Treatment Prediction of the Lumbar Spine

Andrei Diana*, Nemes Dan*, Mirela Toth-Taşcău**, Dan Ioan Stoia**
* University of Medicine and Pharmacy Victor Babes, Timisoara, România
** Politehnica University of Timisoara, Timisoara, România

Parameters Influence in Electric Arc Modeling

L. Ghiormez and O. Prostean
Politehnica University of Timisoara, Romania

Business Process Modeling for Administrative Activities – Analyzing Dynamic Behavior

J. Tick*, A. Tick**
*Óbuda University, Budapest, Hungary
**Budapest Business School, Budapest, Hungary

Integrated OCOPOMO Toolset for Open Collaboration in Policy Modelling

P. Bednar*, P. Smatana**
* Technical University of Kosice, Kosice, Slovakia
** Intersoft, a.s., Kosice, Slovakia

Open Source Plethysmographic Application for Monitoring of Cardiovascular Parameters

Norbert Csík
Kecskemét College, Kecskemét, Hungary

Voltage Control in a Microgrid Using Demand Response

Cosmin Koch-Ciobotaru, Radu Boraci, Octavian Proştean, Iosif Szeidert
“Politehnica” University, Timisoara, Romania

An Approach on Mathematical Modeling of Photovoltaic Solar Panels

M. Babescu*, C. Sorandaru*, S. Musuroi*, M. Svoboda* and N.V. Olarescu**
* Politehnica University of Timisoara, Romania
** Diehl AKO Stiftung K. G., Wangen, Germany

16:40 – 17:00  COFFEE BREAK ________________________
17:00 – 18:40 PARALLEL SESSIONS

17:00 – 17:40 [T7] SESSION on Manufacturing and Automotive Applications

Session Chairs: László Horváth and Stefan Holban

17:00 – 17:20 Situation-based Feature Definition on Product Behavior Level
László Horváth and Imre J. Rudas
Óbuda University, Budapest, Hungary

17:20 – 17:40 A New Trend in Automotive Software: AUTOSAR Concept
Catalin-Virgil Briciu*, Ioan Filip* and Franz Heininger**
* “Politehnica” University of Timisoara, Romania
** Continental Automotive Germany, Regensburg, Germany

17:40 – 18:00 Designing Complex Petri Nets using Submodels with Application in Flexible Manufacturing Systems
Mihai Popescu, Dan Ungureanu-Anghel, Ioan Filip
“Politehnica” University of Timisoara, Romania

18:00 – 18:20 LabVIEW Remote Panels and Web Services in Solar Energy Experiment – A Comparative Evaluation
P. Bauer*, R. Ionel**
* Delft University of Technology, The Netherlands
**University “Politehnica” from Timișoara, Romania

18:20 – 18:40 A Model to Estimate the throughput Value for a Transport Network
I. M. Haragos, S. Holban, C. Cernazanu-Glavan
Politehnica University of Timisoara, Romania
17:00 – 18:20  [T8] SPECIAL SESSION on PhD Student Research in Applied Informatics I  Room A 109

The session was organized by the Doctoral School of Applied Informatics, Óbuda University, Budapest, Hungary

Session Chairs: Mihai Micea and Vladimir-Ioan Creţu

17:00 – 17:20  Energy Efficiency in Real-Time Systems: A Brief Overview
Cristina S. Stangaciu, Mihai V. Micea, Vladimir I. Cretu
"Politehnica" University of Timisoara, Romania

17:20 – 17:40  Common-Rail Pressure Estimation using a Neuro-Fuzzy architecture with Local Hammerstein Models
Gelu Laurenţiu Ioanaş *, Toma Leonida Dragomir **
* Continental Automotive Timisoara, Romania
** "Politehnica" University of Timişoara, Romania

17:40 – 18:00  Visibility-based Planners for Kinematically Constrained Vehicles
Mihai Pomarlan
Universitatea Politehnica Timisoara

18:00 – 18:20  Computational Analysis of Thematic Blog Data for Sociological Inference Mining
* South Asian University, New Delhi, India
** Banaras Hindu University, Varanasi, India
17:00 – 18:20 [T9] Session on Modeling and Optimization Applications Room A 116

Session Chairs: Levente Kovács and János Fülöp

17:00 – 17:20 An Optimization Approach for the Eigenvector Method
János Fülöp
Computer and Automation Research Institute, Hungarian Academy of Sciences, Budapest, Hungary

17:20 – 17:40 Approximation of the Whole Pareto-Optimal Solution Set for Vector Optimization Problems
Tibor Illés, Gábor Lovics
Budapest University of Technology and Economics

17:40 – 18:00 Cluster Analysis by Exploiting Conditional Independences
Tamás Szántai
Budapest University of Technology and Economics, Hungary
Edith Kovács
Budapest College of Management, Budapest, Hungary

18:00 – 18:20 Tumor Growth Model Identification and Analysis in Case of C38 Colon Adenocarcinoma and B16 Melanoma
Johanna Sápi*, Dániel András Drexler†, István Harmati†, Annamária Szeles†, Bernadett Kiss †, Zoltán Sápi‡ and Levente Kovács*
*Óbuda University, Budapest, Hungary
†Budapest University of Technology and Economics, Hungary
‡Semmelweis University, Budapest, Hungary
17:00 – 18:20  [TP3] POSTER SESSION on Hardware and Software Applications  
Session Chairs: Peter Butka and Gabriela Ioana Prostean

Cloud-based Clustering of Text Documents Using the GHSOM Algorithm on the GridGain Platform

M. Sarnovsky, Z. Ulbrik
Technical University in Kosice, Slovak Republic

To Achieve Circuit Robustness by Co-operation of FPAA and Embedded Microcontroller

György Győrök, Tamás Orosz, Margit Makó, Tamás Treiber
Óbuda University, Székesfehérvár

Finding Dispatcher Gadgets for Jump-oriented Programming Code Reuse Attacks

L. Erdődi
Óbuda University, Hungary

Improving Management of Utilities Payment with Web-based Solution

Serban Popa, Gabriela Ioana Prostean
"Politehnica" University, Timisoara, România

Use of Generalized One-sided FCA Approach for Joining of Simple Object-attribute Models

P. Butka*, J. Pócsova* and J. Pócs§
* Technical University of Košice, Slovakia
§ Palacky University Olomouc, Olomouc, Czech Republic, and Mathematical Institute, Slovak Academy of Sciences, Košice, Slovakia

Hybrid Approach for Visualization of Documents Clusters Using GHSOM and Sammon Projection

P. Butka, J. Pócsová
Technical University of Košice, Košice, Slovakia

19:00  Banquet  
Restaurant Universitar, Aleea FC Ripensia no. 1
May 24, Friday

8:00 – 13:00  REGISTRATION __________________________ Room A107

9:15 – 10:00  PLENARY SESSION III ________________ Room A109

Evolutionary Optimisation of Classifiers and Classifier Ensembles for Cost-Sensitive Pattern Recognition

*Gerald Schaefer*
Loughborough University, Loughborough, U.K.

*Session Chair: Radu-Emil Precup*

10:00 – 10:20  COFFEE BREAK ________________________

10:20 – 12:20  PARALLEL SESSIONS _____________________
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<td>10:40 – 11:00</td>
<td>An Intelligent System Designed for Controlling the Manufacturing Process in a Flexible Manufacturing System</td>
<td>A. D. Morosan and F. Sisak</td>
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<td>11:40 – 12:00</td>
<td>Spline Filtering in Accordance to ISO/TS 16610: ANSI C-Code for Engineers</td>
<td>Péter Bakucz</td>
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<td>12:00 – 12:20</td>
<td>Problems and Solutions in Submicron Displacement Measurement</td>
<td>Gyula Hermann</td>
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10:20 – 12:00  **[F2] SPECIAL SESSION on Renewable Energy and Power System Optimization**  
**Room A109**

*Session Chairs: Octavian Proștean and Stefan Kilyeni*

10:20 – 10:40  
**Feasibility of a Solar Swimming Pool in the Western Part of Romania**  
*Ioan Luminosu, Aldo De Sabata*  
"Politehnica" University of Timișoara, Romania

10:40 – 11:00  
**High Efficiency Power Converters for Renewable Sources of Energy**  
*E. Guran*  
"Politehnica" University of Timisoara, Romania

11:00 – 11:20  
**PV Control System Based On Short-Circuit Current**  
*O. Gana, C. Vasar, M. Babescu and A. Vartosu*  
"Politehnica" University of Timișoara, Romania

11:20 – 11:40  
**Artificial Intelligence-based TNEP. Part 1: Mathematical Models**  
*Dan Cristian, Constantin Barbulescu, Stefan Kilyeni, Oana Pop, Florin Solomonesc*  
"Politehnica" University of Timisoara, Romania

11:40 – 12:00  
**Artificial Intelligence-based TNEP. Part 2: Case Studies**  
*Florin Solomonesc, Constantin Barbulescu, Stefan Kilyeni, Oana Pop, Dan Cristian*  
"Politehnica" University of Timisoara, Romania
10:20 – 12:00  [F3] SPECIAL SESSION on PhD Student Research in Applied Informatics II __ Room A204

The session was organized by the Doctoral School of Applied Informatics, Óbuda University, Budapest, Hungary

Session Chairs: László Horváth and Vladimir-Ioan Crețu

* University of Medicine and Pharmacy Victor Babes, Timisoara, România
** Politehnica University of Timisoara, Timisoara, România

10:40 – 11:00  New Experimental Method for Measuring Power Characteristics of Photovoltaic Cells at Given Light Irradiation
A. Varga, E. Rácz and P. Kádár
Óbuda University, Budapest, Hungary

11:00 – 11:20  Fine Tuning with Sigmoid Functions in Robust Fixed Point Transformation
Krisztián Kósi
Óbuda University, Budapest, Hungary

János F. Bitó, József K. Tar
Óbuda University, Budapest, Hungary

11:20 – 12:00  Intelligent Vehicle Systems in the Light of the Technical Regulations
Monika Pogatsnik
Óbudai Egyetem, Székesfehérvár, Hungary

12:20 – 14:00  LUNCH BREAK ______________ Casa Politehnicii 1
14:00 – 15:20 PARALLEL SESSIONS ___________________

14:00 – 15:20 [F4] SESSION on Complex Systems __ Room A115

   Session Chairs: Gerald Schaefer and Voicu Groza

14:00 – 14:20 An Improved Ensemble Approach for Imbalanced Classification Problems
   Bartosz Krawczyk
   Wroclaw University of Technology, Wroclaw, Poland
   Gerald Schaefer
   Loughborough University, Loughborough, U.K.

14:20 – 14:40 A Cost-Sensitive Ensemble Classifier for Breast Cancer Classification
   Bartosz Krawczyk
   Wroclaw University of Technology, Wroclaw, Poland
   Gerald Schaefer
   Loughborough University, Loughborough, U.K.
   Michal Woźniak
   Wroclaw University of Technology, Wroclaw, Poland

14:40 – 15:00 Wideband Adaptive LMS Beamforming Using QMF Subband Decomposition for Sonar
   H. Charafeddine, V. Groza
   University of Ottawa, Ottawa, Canada

15:00 – 15:20 Development and Modeling of Different Scenarios for a Smart Distribution Grid
   * Technical University of Denmark, Roskilde, Denmark
   ** Politehnica University, Timisoara, Romania
   X SEAS-NVE, Svinninge, Denmark
   ** Dansk Energi, Copenhagen, Denmark
14:00 – 15:30 [F5] SESSION on Software Algorithms and Applications Room A109

Session Chairs: Vesna Jevtic and Levente Kovács

14:00 – 14:20 Correlation Investigations between HbA1c and Blood Glucose Indicators on Type 1 Diabetic Hungarian Children
T. Ferenci*, A. Körner ** and L. Kovács*
* Öbuda University, Budapest, Hungary
** Semmelweis University, Budapest, Hungary

14:20 – 14:40 Extracting High-Level User Context from Low-Level Mobile Sensors Data
Marius Marcu*, Nadia Ghiata**, and Vladimir Cretu*
**“Politehnica” University of Timisoara, Timisoara, Romania
***Intuitive Software, Timisoara, Romania

14:40 – 15:00 Beyond Digital Forensics. A Cloud Computing Perspective over Incident Response and Reporting
Alecșandru Pătrașcu and Victor-Valeriu Patriciu
Military Technical Academy, Bucharest, Romania

15:00 – 15:20 Context Dependent Maintenance Effort Estimation: Case Study in a Small Software Company
Z. Stojanov, D. Dobrilovic, J. Stojanov, V. Jevtic
University of Novi Sad, Technical faculty “Mihajlo Pupin”, Zrenjanin, Serbia
14:00 – 15:20 **[F6] SESSION on Networks and Communications** Room A204

Session Chairs: Dan Ionescu and Doru Todinca

14:00 – 14:20 **Novel Network Selection Algorithm Based on Fuzzy Inference**  
*Doru Todinca*  
University Politehnica of Timisoara  
*Cosmin Cernăzanu-Glăvan*  
University Politehnica of Timisoara

14:20 – 14:40 **Cloud-based Application Development Platform for Secure, Intelligent, Interlinked and Interactive Infrastructure**  
*Dorel Nasui**, Valentin Sgarciu** and *Alexandra Cernian**  
*American International Radio, Inc., Illinois, USA*  
**University Politehnica of Bucharest, Romania*

14:40 – 15:00 **OMNeT++ Framework for Efficient Simulation of Vertical Handover Decision Algorithms**  
*Doru Todinca, Cosmin Cernăzanu-Glăvan*  
University Politehnica of Timisoara

15:00 – 15:20 **Leaky Bucket Model for Autonomic Control of Distributed, Collaborative Systems**  
*Bogdan Solomon, Dan Ionescu, Cristian Gadea, Stejarel Veres*  
NCCT Lab, University of Ottawa, Ottawa, Ontario, Canada  
*Marin Litoiu*  
York University, Toronto, Ontario, Canada

18:00 **Coctail** Casa Politehnicii 2

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