SACI 2013

8th IEEE International Symposium on Applied Computational Intelligence and Informatics

Timișoara, Romania

May 23-25, 2013

FINAL PROGRAM
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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IEEE Hungary Section
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 pendriveProceedings 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 (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**

**T1 SESSION on Optimization Algorithms and Applications**

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 Moisi*\(^1\), *Benedek Nagy*\(^2\), *Vladimir Ioan Cretu*\(^3\)
\(^1\) 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 Timișoara, 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
11:20 – 13:00  [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  
§ Babeș-Bolyai University, Cluj-Napoca, Romania

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

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

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 Agarliţă 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 Timişoara, Timişoara, 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 Năgăţ, Cătălin-Daniel Căleanu*
“Politehnica” University of Timişoara, Timişoara, 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
[T6] SESSION on Applied Mathematics in Nonlinear Systems

Carpathian Applied Mathematics Workshop (CAMI 2013)

Session Chairs: Imre Fekete and Adalbert Kovacs

15:00 – 15:20
A Sublinear Differential Inclusion on Strip-Like Domains
Csaba Farkas
Babeş-Bolyai University, Cluj-Napoca, Romania
Robert Fullér
Óbuda University, Budapest, Hungary
Alexandru Kristály
Babeş-Bolyai University, Cluj-Napoca, Romania, and Óbuda University, Budapest, Hungary

15:20 – 15:40
A Stability Approach for Reaction-Diffusion Problems
Fekete, I., Faragó, I.
Eötvös Loránd University, Hungary, & MTA-ELTE Numerical Analysis and Large Networks Research Group

15:40 – 16:00
HITS-based Network Algorithm for Evaluating the Professional Skills of Wine Tasters
Andrés London and Tibor Csendes

16:00 – 16:20
Hopf Bifurcations in a Mathematical Model of HIV-1 Infection with Delay
Olivia Bundău, Adina Juratoni, Adalbert Kovacs
Politehnica University of Timisoara

16:20 – 16:40
A Martingale Approximation Result for GARCH Processes
László Gerencsér* and Zsanett Orlovits**
* Computer and Automation Research Institute of the Hungarian Academy of Sciences
** Budapest University of Technology and Economics, Hungary
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 Proștean, 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 _______ Room A 115

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 Crețu*

---

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

---

**17:20 – 17:40**  
**Common-Rail Pressure Estimation using a Neuro-Fuzzy architecture with Local Hammerstein Models**  
*Gelu Laurențiu Ioanaș *, Toma Leonida Dragomir **  
* Continental Automotive Timisoara, Romania  
** “Politehnica” University of Timișoara, Romania

---

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

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**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
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 Györök, 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
§ Palacký 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

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 ________________________
10:20 – 12:20 [F1] SESSION on Control Theory and Applications in Mechatronics Room A115

Intelligent Mechatronics Workshop (IMEC 2013)

Session Chairs: Darko Mitic and Vlad Muresan

10:20 – 10:40 An Approach to Design of Sliding Mode-based Generalized Predictive Control

Darko Mitic*, Miodrag Spasić*, Morten Hovd** and Dragan Antić*
*University of Niš, Serbia
** Norwegian University of Science and Technology, Trondheim, Norway

10:40 – 11:00 An Intelligent System Designed for Controlling the Manufacturing Process in a Flexible Manufacturing System

A. D. Morosan and F. Sisak
University “Transilvania”, Brasov, Romania

11:00 – 11:20 Modeling and Simulation of the Automatic Control System of the Residual Water Blunting Process from a Metallurgical Factory

V. Mureșan, M. Abrudean and T. Coloși
Technical University of Cluj-Napoca, Romania

11:20 – 11:40 Synthesis of an Articulated Ten Bar Mechanism for Building a Walking Robot

Florina Moldovan, Valer Dolga and Cristian Pop
University Politehnica of Timisoara, Romania

11:40 – 12:00 Spline Filtering in Accordance to ISO/TS 16610: ANSI C-Code for Engineers

Péter Bakucz
Óbuda University, Budapest, Hungary

12:00 – 12:20 Problems and Solutions in Submicron Displacement Measurement

Gyula Hermann
Óbuda University, Budapest, Hungary
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 Timisoara, Romania

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 Creţu

* 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
Wrocław University of Technology, Wrocław, Poland

Gerald Schaefer
Loughborough University, Loughborough, U.K.

14:20 – 14:40  A Cost-Sensitive Ensemble Classifier for Breast Cancer Classification

Bartosz Krawczyk
Wrocław University of Technology, Wrocław, Poland

Gerald Schaefer
Loughborough University, Loughborough, U.K.

Michał Woźniak
Wrocław University of Technology, Wrocław, 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
xx 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*
* Óbuda 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

Alesandru Pătraşcu 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

Bd. M. Eminescu nr. 11
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