



# SACI 2013

**8<sup>th</sup> IEEE International Symposium on Applied  
Computational Intelligence and Informatics**

Timișoara, Romania  
May 23-25, 2013



# FINAL PROGRAM



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Applied Computational Intelligence and  
Informatics**

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## SACI 2013 PROCEEDINGS

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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**

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### **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**

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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 (8<sup>th</sup> 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**

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

<http://conf.uni-obuda.hu/imec2013/>

## SACI 2013 TECHNICAL PROGRAM

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### May 23, Thursday

8:00 – 13:00	<b>REGISTRATION</b> _____	<b>Room A107</b>
9:00 – 9:30	<b>OPENING CEREMONY</b> _____	<b>Room A101 Aula</b>
9:30 – 10:15	<b>PLENARY SESSION I</b> _____	<b>Room A101 Aula</b>
	<b>Approximation Properties and Continuous Differentiability of a Class of SISO Fuzzy Systems</b>	
	<b><i>Barnabás Bede</i></b>	
	DigiPen Institute of Technology, Redmond, USA; Óbuda University	
	<b><i>Matthew P. Peterson</i></b>	
	DigiPen Institute of Technology, Redmond, USA	
	<u>Session Chair:</u> <b><i>Imre J. Rudas</i></b>	
10:15 – 11:00	<b>PLENARY SESSION II</b> _____	<b>Room A101 Aula</b>
	<b>Model-based Oscillometric Blood Pressure Estimation</b>	
	<b><i>Voicu Groza</i></b>	
	University of Ottawa, Canada	
	<u>Session Chair:</u> <b><i>Vladimir-Ioan Crețu</i></b>	
11:00 – 11:20	<b>COFFEE BREAK</b> _____	

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*

11:20 – 11:40 **Analysis of the Suitability of Using Blind Crossover Operators in Genetic Algorithms for Solving Routing Problems**  
*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

12:20 – 12:40 **Maximum Flow Minimum Cost Algorithm for Reconstruction of Images Represented on the Triangular Grid**  
*Elisa Valentina Mois<sup>1</sup>, Benedek Nagy<sup>2</sup>, Vladimir Ioan Cretu<sup>3</sup>*  
<sup>1</sup> University of Oradea, Romania  
<sup>2</sup> University of Debrecen, Hungary  
<sup>3</sup> "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 Ósz 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 Ósz\*, 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  
§ 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**

*J. Novak-Marcincin, M. Janak, J. Barna and L. Novakova-Marcincinova*  
Technical University of Kosice, Presov, Slovakia

**Design and Experiments for Model-Free PI Control of DC Drives**

*Mircea-Bogdan Radac\**, *Razvan-Alexandru Achimescu\*\**, *Radu-Emil Precup\**, *Stefan Preitl\**, *Claudia-Adina Dragos\** and *Alexandra-Iulia Stinean\**

\* "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**

*Alexandra-Iulia Stinean\**, *Stefan Preitl\**, *Radu-Emil Precup\**, *Claudia-Adina Dragos\**, *Emil M. Petriu\*\**, *Mircea-Bogdan Radac\**

\* "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 Mulec, 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 Căleanu*

- 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 Nagăț, 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

**15:00 – 15:40 [T6] SESSION on Applied Mathematics in  
Nonlinear Systems \_\_\_\_\_ Room A 204**

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**

***András 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. Proştean*

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** \_\_\_\_\_ **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

**18:00 – 18:20** **Computational Analysis of Thematic Blog Data for Sociological  
Inference Mining**

**V. K. Singh\*, P. Waila\*\*, R. Sadat\*, R. Piryani\*, A. Uddin\***

\* 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 Sági\**, *Dániel András Drexler†*, *István Harmati†*, *Annamária Szeles†*, *Bernadett Kiss †*, *Zoltán Sági‡* 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** \_\_\_\_\_ ground floor

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

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** \_\_\_\_\_

**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 Mitić\**, *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. Mureşan, M. Abrudean and T. Coloşi*  
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 Proştean 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

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**

**10:20 – 10:40 Process Modeling and Assisted Diagnosis in Spinal Recovery**  
***Diana Andrei\**, *Dan V. Poenaru\**, *Dan Nemes\**, *Mihaela Vida\*\**, *Lăcrămioara Stoicu-Tivadar\*\**, *Norbert Gal\*\****

\* 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**

***L. Mihet-Popa<sup>\*</sup>, \*\**, *X. Han<sup>\*</sup>*, *H. Bindner<sup>\*</sup>*, *J. Pihl-Andersen<sup>x</sup>*, and *J. Mehmedalic<sup>xx</sup>***

<sup>\*</sup> Technical University of Denmark, Roskilde, Denmark

<sup>\*\*</sup> Politehnica University, Timisoara, Romania

<sup>x</sup> SEAS-NVE, Svanninge, Denmark

<sup>xx</sup> 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**  
*Alecsandru 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

Bd. M. Eminescu nr. 11



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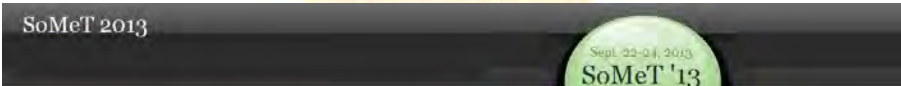


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12<sup>th</sup> International Conference on Intelligent Software Methodologies, Tools and Techniques

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A light blue banner for the SISY 2013 conference. On the left, it says "SISY 2013" in blue, followed by "SUBOTICA, SERBIA" in black. Below this are three colored spheres (blue, green, orange). To the right is a silver metallic-looking logo. In the center, the text "IEEE 11<sup>TH</sup> INTERNATIONAL SYMPOSIUM ON INTELLIGENT SYSTEMS AND INFORMATICS" is written in orange. Below this, it says "Welcome to SISY 2013!" in blue. On the bottom left is a small image of a church tower, and next to it is the date "September 26-28, 2013" in blue. On the bottom right is the IEEE logo.

<http://conf.uni-obuda.hu/sisy2013>



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**Budapest, Hungary**

**November 19-21, 2013**



**IEEE**



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**See you at SACI 2014!**



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