

SACI 2009

5th International Symposium on Applied Computational Intelligence and Informatics

Timișoara, Romania
May 28-29, 2009

FINAL PROGRAM

GENERAL INFORMATION

Date and Place

SACI 2009 will take place on May 28-29, 2009, at „Politehnica” University of Timisoara.

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 CD 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 the participants are cordially invited for lunch and the evening reception.

Smoking

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

Pre-Symposium Workshop of SACI 2009

International Workshop on Computational Intelligence in Information Sciences

May 25-26, 2009
Miskolc, Hungary

Fuzzy Rule Interpolation-based Tool Life Modeling Using RBE-SI and FRIPOC

A. Berecz

Dennis Gabor Applied University, Budapest, Hungary

Group technology for automated generation of machine controller code1

O. Hornyák*, G. Sáfrány**

* University of Miskolc, Hungary

** evoPro Ltd., Budapest, Hungary

Novel Emotion Engine for Robot and Its Parameter Tuning by Bacterial Foraging

Dong-Hwa Kim, Shivashankar B. Nair**

* Hanbat National University, Daejeon City, Korea

** Indian Institute of Technology Guwahati, India

Metamodels in Generation of UML Using NLI-based Dialog

L. Kovács*, G. Kovásznai, G. Kusper****

* University of Miskolc, Hungary

** Eszterházy Károly College, Eger, Hungary

FRI Model-based Pre-Evaluation in IEC

Z. Krizsán, Sz. Kovács

Department of Information Technology, Miskolc, Hungary

Clustering of Users Inputs in Multi-User Interactive Evolutionary Font Design

Miron Kuzma, Rudolf Jakša, Peter Sinčák

Technical University of Košice, Slovakia

Software Testing – State of the Art and Current Research Challenges

Tibor Répási

University of Miskolc, Hungary

Reducing the Number of Security Vulnerabilities in Web Applications by Improving Software Quality

Gergely Trifonov Cisa

IND Group, OWASP, Hungary

Fuzzy Rule Interpolation-based Q-Learning

Dávid Vincze, Szilveszter Kovács

University of Miskolc, Hungary

Polytopic Model Reconstruction of a Pneumatic Positioning System

Patricia Gróf*, Zoltán Petres, János Gyeviki*****

* Budapest University of Technology, Hungary

** Hungarian Academy of Sciences Computer and Automation Research Institute /Cognitive Informatics Group, Budapest, Hungary

*** University of Szeged, Hungary

Exact Reconstruction of HOSVD-based TP Models from Sampled Data

Szabolcs Nagy

Computer and Automation Research Institute, Hungarian Academy of Sciences, Budapest, Hungary

May 28, Thursday

- 8:00 – 12:00 **REGISTRATION** _____
- 9:00 – 9:15 **OPENING CEREMONY** _____ **Room A 109**
- 9:15 – 10:00 **PLENARY SESSION** _____ **Room A 109**
- Alcatel-Lucent – Applications Enablement Strategy**
Dan Bedros
Alcatel-Lucent Romania
- Session Chair: **Stefan Preitl**
- 10:00 – 10:20 **COFFEE BREAK** _____
- 10:20 – 12:00 **PARALLEL SESSIONS** _____
- 10:20 – 12:00 **SESSION Control Algorithms** _____ **Room A 109**
- Session chair: **Igor Skrjanc**
- 10:20 – 10:40 **Observer-based Adaptive Variable Structure Control and Synchronization of Unknown Chaotic Systems**
Navid Noroozi*, **Mehdi Roopaei****, **Valentina Emilia Balas*****, **Tsung-Chih Lin******
*, ** Shiraz University, Shiraz, Iran
**, Fars Research and Science-Islamic Azad University, Fars, Iran
*** Aurel Vlaicu University of Arad, Romania
**** Feng-Chia University, Taichung, Taiwan
- 10:40 – 11:00 **Iterative Feedback Tuning in MIMO Systems. Signal Processing and Application**
Mircea-Bogdan Radac, **Radu-Emil Precup**, **Stefan Preitl**, **Claudia-Adina Dragos**
"Politehnica" University of Timisoara, Romania
- 11:00 – 11:20 **Advanced Control and Optimization for Thermo-Energetic Installations**
Tudor-Bogdan Airimitoae, **Dumitru Popescu**, **Cătălin Dimon**
University Politehnica of Bucharest, Romania
- 11:20 – 11:40 **Nonlinear and Linearized Models and Low-cost Control Solution for an Electromagnetic Actuator**
Claudia-Adina Dragos, **Stefan Preitl**, **Mircea-Bogdan Radac**, **Radu-Emil Precup**
"Politehnica" University of Timisoara, Romania
- 11:40 – 12:00 **Asymmetric High Frequency Square Wave Generator with DC Component Control for Ion Mobility Spectrometers**
Clement Festila*, **Eva-Henrietta Dulf***, **Cornel Cuna****
* Technical University of Cluj-Napoca, Romania
** National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania

Session Chairs: *Zoltán Benyó, Levente Kovács*

10:20 – 10:35 **Soft Computing Control of Type 1 Diabetes Described at Molecular Levels**

*Levente Kovács**, *András György**, *Balázs Benyó**, *Zoltán Benyó**, *Adalbert Kovács***

* Budapest University of Technology and Economics, Hungary

** “Politehnica” University of Timisoara, Romania

10:35 – 10:50 **Application of Hybrid c-Means Clustering Models in Inhomogeneity Compensation and MR Brain Image Segmentation**

*László Szilágyi**, *Sándor M. Szilágyi**, *Balázs Benyó***, *Zoltán Benyó***

* Sapientia – Hungarian Science University of Târgu-Mureş,
Romania

** Budapest University of Technology and Economics, Hungary

10:50 – 11:05 **A Weighted Patient Specific Electromechanical Model of the Heart**

*Sándor M. Szilágyi**, *László Szilágyi**, *David Iclănzan***, *Zoltán Benyó****

* Sapientia – Hungarian Science University of Târgu Mureş,
Romania

** Babes-Bolyai University of Cluj Napoca, Romania

*** Budapest University of Technology and Economics, Hungary

11:05 – 11:20 **A Webservice-based Alarm Solution in a TeleCare System**

Vasile Stoicu-Tivadar, Lacramioara Stoicu-Tivadar, Vasile Topac, Dorin Berian

“Politehnica” University, Timişoara, Romania

11:20 – 11:35 **Decisional Methods Applied in Medical Domain**

Adriana Albu

“Politehnica” University of Timisoara, Romania

11:35 – 11:50 **Biomechanical Behavior of Canine Tibia Based on Bending Tests and Numerical Analysis**

Mirela Toth Tascu, Mircea Dreucean, Lucian Rusu

“Politehnica” University of Timisoara, Romania

ORAL AND POSTER SESSION WITHIN SPECIAL SESSION

11:50 – 11:53 **Spatial Accuracy of Surgical Robots**

Tamás Haidegger, Levente Kovács, Balázs Benyó, Zoltán Benyó

Budapest University of Technology and Economics, Hungary

11:53 – 11:56 **Design of a Hip Stem with Mesh Structures**

Mihai Ovidiu Ghiba, Cristian Săftescu-Jescu, Delia Bugariu, Teodora Ioanovici

Politehnica University of Timisoara, România

11:56 – 12:00 **On-Site Preparation of a Facial Prosthesis Using a Rapid Prototyping Tool**

Antonius Stanciu, Loredana Stanciu

“Politehnica” University of Timisoara, Romania

10:20 – 12:00 **POSTER SESSION**

Considerations about an Oracle Database Multi-Master Replication

Ioan Filip, Cristian Vasar, Raul Robu
Politehnica University from Timisoara, Romania

Flat-Top Space-Vector Modulation Implemented on a Fixed-Point DSP

Nicolae S. Preda, Ioan Iov Incze, Maria Imecs, Csaba Szabó
Technical University of Cluj-Napoca, Romania

SCADA System for a Central Heating and Power Plant

Mihai Iacob, Gheorghe-Daniel Andreescu, Nicolae Muntean
"Politehnica" University of Timisoara, Romania

Modern Techniques for Automatic Classification of Products

Marius Buzera, Gabriela Prostean**, Greconici Marian***
*Technical College "Gheorghe Magheru"/ Targu-Jiu, Romania
** University Politehnica of Timisoara, Romania

Comparing the Webservers of the Open Source and the Closed Source Operation Systems

Valéria Póser-Oláh
Budapest Tech, Hungary

Dynamic Programming with Web Dynpro ABAP

Ana Daniela Cristea, Octavian Prostean
"Politehnica" University of Timisoara, Romania

12:00 – 14:00 **LUNCH**

14:00 – 15:40 **PARALLEL SESSIONS**

14:00 – 15:40 **SESSION Intelligent Manufacturing Systems and Robotics** Room A 109

Session Chair: *Radu-Emil Precup*

14:00 – 14:20 **Product Modeling Beyond Information**

László Horváth, Imre J. Rudas
Budapest Tech, Hungary

14:20 – 14:40 **Connectivity in a Wireless Network of Mobile Robots Doing a Searching and Collecting Task**

Tamás Kovács, Attila Pásztor*, Zoltán Istenes***
* Kecskemét College, Hungary
** Eötvös Loránd University, Budapest, Hungary

14:40 – 15:00 **nRobotic: A Platform for Managing Robots with Different Capabilities**

Daniel Iercan, Emil Voisan, Lucian Fedorovici, Florin Dragan
University "Politehnica" of Timisoara, Romania

15:00 – 15:20 **An SVD-based Modification of the Adaptive Inverse Dynamics Controller**

József K. Tar, János F. Bitó*, Imre J. Rudas*, Stefan Preitl**, Radu-Emil Precup***
* Budapest Tech, Hungary
** "Polytechnica" University of Timișoara, Romania

15:20 – 15:40 **Swarm Intelligence Simulation with NXT Robots Using Piconet and Scatternet**

Attila Pásztor*, **Tamás Kovács***, **Zoltán Istenes****

* Kecskemét College, Hungary

**Eötvös Loránd University, Budapest, Hungary

14:00 – 15:40 **SESSION Systems Engineering**

Room A 115

Session Chair: **Stefan Kilyeni**

14:00 – 14:20 **Smart Homes. A Solution for a Smart Lighting System**

Andrei T. Gâmbutan, Mircea Popa

"Politehnica" University, Timisoara, România

14:20 – 14:40 **Concept Validation of an Automatic Passenger Counting System for Trams**

Roland Kovács, László Náday, Gábor Horváth

Transportation Informatics and Telematics University Knowledge Center, Budapest Tech Polytechnic Institution, Hungary

14:40 – 15:00 **Corrections of Sensing Error in Video-based Traffic Surveillance**

Florica Naghiu*, **Dan Pescaru***, **Gabriela Magureanu***, **Ionel Jian***, **Alex Doboli****

* "Politehnica" University of Timisoara, Romania

** State University of New York at Stony Brook, USA

15:00 – 15:20 **A Low Cost Submicron Measuring Probe**

Gyula Hermann

Budapest Tech, Hungary

15:20 – 15:40 **Thermally Autonomous Residence in the Western Part of Romania**

Ioan Luminosu, Aldo De Sabata, Coleta De Sabata

"Politehnica" University of Timisoara, Romania

14:00 – 15:40 **POSTER SESSION**

Remote Temperature Monitoring and Regulating System for Indoor Locations

Mircea Popa, Anca Sorana Popa, Andrei Toader Gâmbutan

"Politehnica" University, Timisoara, România

Systems Modeling Based on Legendre Polynomials

Bratislav Dankovic, Dragan Antic, Zoran Jovanovic, Sasa Nikolic, Marko Milojkovic

Faculty of Electrical Engineering, Nis, Republic of Serbia

Analysis and Design in Databases Modeling Using SAP Integrated Systems

Adela Diana Berdie*, **Mihaela Osaci***, **Gabriela Prostean***, **Reinhold Haipl****

* Politehnica University of Timisoara, Romania

**BASF IT Services GmbH, Ludwigshaffen, Germany

Stability of the Synchronous Generators within Wind Energy Power Systems

Doru Paunescu, Marius Babescu, Octavian Prostean, Iosif Szeidert

"Politehnica" University of Timisoara, Romania

Kernel-based Image Registration versus MLESAC: a Comparative Study

Daniela Fuiorea, Vasile Gui, Dan Pescaru, Corneliu Toma

"Politehnica" University of Timisoara, Romania

Analysis by Numerical Simulation regarding the Stability of the Synchronous Generator Operating in Autonomous or Grid Connected Regime

*Iosif Szeidert**, *Marius Biriescu**, *Lucian Mihet-Popa**, *Daniel Toader***

* "Politehnica" University of Timisoara, Romania

** "Aurel Vlaicu" University of Arad, Romania

15:40 – 16:00 **COFFEE BREAK**

16:00 – 18:00 **PARALLEL SESSIONS**

16:00 – 18:00 **SESSION Control Applications** Room A 109

Session Chair: *Marius Babescu*

16:00 – 16:20 **Control System of the Continuous Casting Process for Cracks Removal**

Gelu Ovidiu Tirian, Octavian Prostean, Ioan Filip

"Politehnica" University of Timisoara, Romania

16:20 – 16:40 **Multiagent Architecture Applied in Decentralized Real-Time Urban Road Traffic Control**

Ovidiu Baniias, Radu-Emil Precup, Daniel Curciac

Politehnica University of Timisoara, Romania

16:40 – 17:00 **Control System Optimization of Rotary Hearth Furnace Charging/Discharging**

Vlad Muresan, Mihail Abrudean

Technical University of Cluj-Napoca, Romania

17:00 – 17:20 **Porting Hierarchical Timing Language on Microcontroller-based Platform**

Daniel Iercan, Lucian Fedorovici

University "Politehnica" of Timisoara, Romania

17:20 – 17:40 **Optimizing Intensive Automatic Voltage Regulator Parameters**

Stefan Kilyeni, Constantin Barbulescu, Annamaria Kilyeni, Marius Biriescu

"Politehnica" University, Timisoara, Romania

17:40 – 18:00 **Experimental Considerations upon the Optimal Control of Reversing Rolling Mills**

Stela Rusu-Anghel, Gelu-Ovidiu Tirian, Lucian Gherman, Nicolae Rusu-Anghel

"Politehnica" University of Timisoara, Romania

16:00 – 18:00 **SESSION Advanced Hardware Applications and Sensor Networks** Room A 115

Session Chair: *Ioan Filip*

16:00 – 16:20 **Security Architecture Based on Multilayer Distributed Intrusion Detection System**

Martin Chovanec, Liberios Vokorkos, Ján Perháč

Technical University of Košice, Slovakia

16:20 – 16:40 **Built-In Self Test Applicability for the Non-Linear Operations of Advanced Encryption Standard**

Flavius Opritoiu, Mircea Vladutiu, Lucian Prodan, Mihai Udrescu

"Politehnica" University of Timisoara, Romania

16:40 – 17:00 **Steganography on Embedded Devices**

Daniela Stanescu, Valentin Stangaciu, Ioana Ghergulescu, Mircea Stratulat

"Politehnica" University of Timisoara, Romania

17:00 – 17:20 **Energy-Driven Methodology for Node Self-Destruction in Wireless Sensor Networks**

Madalin Plastoï, Daniel-Ioan Curiac

“Politehnica” University Timisoara, Romania

17:20 – 17:40 **Scalable Metric for Coverage Evaluation in Video-based Wireless Sensor Networks**

Dan Pescaru, Codruta Istin, Florica Naghiu, Madalin Gavrilescu, Daniel Curiac

“Politehnica” University of Timisoara, Romania

17:40 – 18:00 **Using a WLAN Infrastructure as a Wireless Sensor Network in a Scalable Architecture**

Sebastian Fuicu, Marius Marc, Bogdan Stratulat, Iulia Klein

“Politehnica” University of Timisoara, Romania

16:00 – 18:00 **POSTER SESSION**

Sensor-based Motion Control for a Mobile Robot

Anca Sorana Popa, Mircea Popa, Dan Szilagyi

“Politehnica” University, Timisoara, România

Modeling and Simulation of a Doubly-Fed Induction Machine Operating in Generator Regime with α Angle Lagged Windings

Iosif Szeidert, Ioan Filip

“Politehnica” University of Timisoara, Romania

Issues on Low Power Routing For Wireless Sensor Networks

Cristian Vasar, Gabriela Prostean, Andreea Robu

Politehnica University from Timisoara, Romania

A Nonlinear Evaluation of the Bearing with Alternating Poles and Magnetic Liquid

Marian Greconici*, Dumitru Toader*, Marius Buzera**

* Politehnica University, Timisoara, Romania

** Technical College “Gheorghe Magheru”, Targu-Jiu, Romania

On a Software Platform for the On-Line Quality Evaluation in Academic Environment

Andreea P. Robu, Cristian Vasar

“Politehnica” University of Timisoara, Romania

18:30 **RECEPTION**

May 29, Friday

- 9:00 – 9:45 **PLENARY SESSION** **Room 109**
- Virtual Product Definition on the Way Towards Intelligent Engineering**
László Horváth
Budapest Tech, Hungary
- Session Chair: *János Fodor*
- 9:45 – 10:00 **COFFEE BREAK**
- 10:00 – 12:20 **PARALLEL SESSIONS**
- 10:00 – 12:20 **SESSION Applied Informatics** **Room 109**
- Session Chair: *Zsolt Csaba Johanyák*
- 10:00 – 10:20 **MSHOSIM – A Tool for Mobile Station Handover Simulation**
*Emanuel Ciprian Sasu**, *Octavian Prostean**, *Voicu Groza***
* “Politehnica” University, Timisoara, Romania
** University of Ottawa, Canada
- 10:20 – 10:40 **A Generic Approach for Interfacing Databases and Devices**
Vasile Stoicu-Tivadar, Dorin Berian
“Politehnica” University, Timișoara, Romania
- 10:40 – 11:00 **ElGamal with Differentiated Decryption on K+1 Access Levels**
Stelian Flonta, Liviu Cristian Miclea, Izabella Diana Păun
Technical University of Cluj-Napoca, Romania
- 11:00 – 11:20 **A Multidisciplinary Project: How to Turn a Webcam into a Secure-Cam**
Bogdan Groza, Lavinia E. Dragomir
“Politehnica” University of Timișoara, Romania
- 11:20 – 11:40 **Improvements in Cardiology Workflow in a Hospital Using Mobile Software Solutions**
Romina Pinte, Lacramioara Stoicu Tivadar
University “Politehnica”, Timisoara, Romania
- 11:40 – 12:00 **Towards a Load Balancer Architecture for Multi-Core Mobile Communication Systems**
Dacian Tudor, Georgiana Macariu, Calin Jebelean, Vladimir Crețu
Politehnica University of Timisoara, Romania
- 12:00 – 12:20 **Top Five Most Promising Algorithms in Scheduling**
Andrei Lihu, Ștefan Holban
Politehnica University of Timisoara, Romania

Session Chair: *László Horváth*

10:00 – 10:20 **New Experimental Setups for Audio Signal Processing**

*Adrian Sebastian Paul**, *Radu-Emil Precup**, *János Fodor***, *Mircea-Bogdan Radac**

* “Politehnica” University of Timisoara, Romania

** Budapest Tech Polytechnical Institution, Hungary

10:20 – 10:40 **Modeling and Numerical Simulation Method for Systems with Distributed Parameters**

*Tiberiu Colosi**, *Eva-Henrietta Dulf**, *Livia Buzdugan**, *Iulian O. Maga***

* Technical University of Cluj-Napoca, Romania

** Robert Bosch GmbH, Waiblingen, Germany

10:40 – 11:00 **The Influence of Omitting the Prehistory on the Accuracy of Modelling Dead Time Systems**

Toma-Leonida Dragomir, *Alexandru Codrean*, *Vlad Ceregan*

“Politehnica” University of Timișoara, Romania

11:00 – 11:20 **General Untimed Petri Net Models for the General Components of Automatic Transport Systems with Accumulation Areas**

*Dan Ungureanu-Anghel**, *Eugen Raduca***, *Mihaela Raduca***, *Dan Ionescu****

* “Politehnica” University of Timisoara, Romania

** “Eftimie Murgul” University of Resita, Romania

*** University of Ottawa, Canada

11:20 – 11:40 **Application of Bandpass Filtering in Real Tone Frequency Estimation**

Aldo De Sabata, *Liviu Toma*

"Politehnica" University of Timisoara, Romania

11:40 – 12:00 **Hand Posture Recognition Using Compositional Techniques**

Georgiana Simion, *Vasile Gui*, *Marius Ottesteanu*

Politehnica University of Timisoara, Romania

12:00 – 12:20 **Experiments on a Grid Layer Prototype for Shared Data Programming Model**

*Dacian Tudor**, *Georgiana Macariu**, *Wolfgang Schreiner***, *Vladimir Cretu**

* “Politehnica” University of Timisoara, Romania

** Johannes Kepler University, Linz, Austria

10:00 – 12:20 **POSTER SESSION**

Mathematical Model of the Two Orthogonal Three-Phase Windings Stator Generator

Radu Boraci, *Marius Babescu*, *Nicolae Budisan*, *A. R. Boraci*

“Politehnica” University of Timisoara, Romania

Probabilistic Distribution Factors Assessment Using OptimalPowerPrice Mathematica Software. Case Study: Test 25 Buses Test Power System

Oana Pop, *Doru Păunescu*, *Stefan Kilyeni*, *Mircea Nemeș*, *Annamaria Kilyeni*, *Constantin Barbulescu*

"Politehnica" University, Timisoara, Romania

New Trend in Teaching and Learning Environments for Distance Higher Education

József Gáti, *Gyula Kártyás*

Budapest Tech, Budapest, Hungary

Knowledge Based Power Systems Steady State Diagnosis. Basic Concepts, Software and Case Study

*Ioan Borlea**, *Gheorghe Tănase***, *Bucur Luștrea**, *Stefan Kilyeni**, *Petru Andea**, *Annamaria Kilyeni**

* Politehnica University, Timisoara, Romania

** SC CEZ Romania SRL, Alexandria, Romania

Intelligent Sensor Networks in the Military and Civil Sectors

Tibor István Nagy, József Tick
Budapest Tech, Hungary

- 12:20 – 12:50 **EXTENDED COFFEE BREAK** _____
- 12:50 – 15:10 **PARALLEL SESSIONS** _____
- 12:50 – 15:10 **SESSION Genetic, Neural and Fuzzy Algorithms** _____ **Room 109**
- Session Chair: *Dan Pescaru*
- 12:50 – 13:10 **On Some Classes of Aggregation Functions**
János Fodor, Imre J. Rudas
Budapest Tech, Hungary
- 13:10 – 13:30 **Migration-based Multiobjective Genetic Programming for Nonlinear System Identification**
Lavinia Ferariu, Alina Patelli
"Gh. Asachi" Technical University, Iasi, Romania
- 13:30 – 13:50 **Fuzzy Modeling of the Relation between Components of Thermoplastic Composites and their Mechanical Properties**
Zsolt Csaba Johanyák, Andrea Ádám-Major
Kecskemét College, Hungary
- 13:50 – 14:10 **Daily Load Forecasting Using Recursive Artificial Neural Network vs. Classic Forecasting Approaches**
Dan Jigoria-Oprea, Bucur Lustrea, Stefan Kilyeni, Constantin Barbulescu, Annamaria Kilyeni, Attila Simo
"Politehnica" University, Timisoara, Romania
- 14:10 – 14:30 **Particle Swarm Optimization-based Design of Control Systems with Reduced Sensitivity**
Radu-Codrut David, Mircea-Bogdan Rădac*, Stefan Preitl*, József K. Tar***
* "Politehnica" University of Timisoara, Romania
** Budapest Tech Polytechnical Institution, Hungary
- 14:30 – 14:50 **Translating User Preferences into Fuzzy Rules for the Automatic Selection of Services**
Ioana Șora, Doru Todinca, Cătălin Avram
Politehnica University of Timisoara, Romania
- 14:50 – 15:10 **Towards an Adaptable Large Scale Project Execution Monitoring**
Ciprian Stanciu, Dacian Tudor, Vladimir-Ioan Crețu
"Politehnica" University of Timișoara, Romania
- 12:50 – 15:10 **SESSION Artificial Intelligence** _____ **Room 115**
- Session Chair: *Dacian Tudor*
- 12:50 – 13:10 **CRISP-DM as a Framework for Discovering Knowledge in Small and Medium Sized Enterprises' Data**
Zita Bošnjak, Olivera Grljević, Sasa Bošnjak
University of Novi Sad, Subotica, Serbia
- 13:10 – 13:30 **A Process Algebraic Framework for Service Coordination**
Amelia Bădică, Costin Bădică, Elvira Popescu, Mihnea Scafeș
University of Craiova, Romania

13:30 – 13:50 **Towards Early Performance Assessment Based on UML MARTE Models for Distributed Systems**

Cosmina Chișe, Ioan Jurca

“Politehnica” University, Timisoara, Romania

13:50 – 14:10 **Multi-Agent Models in Workflow Design**

Al. Cicortas, Victoria Iordan

West University of Timișoara, Romania

14:10 – 14:30 **Upon the Dynamic Modeling in Semantics**

Marius Crisan

“Politehnica” University of Timisoara, Romania

14:30 – 14:50 **Unsupervised Exploration of Scientific Articles**

Anton Alin-Adrian, Crețu Vladimir-Ioan

“Politehnica” University of Timișoara, Romania

12:50 – 15:10 **POSTER SESSION**

Dynamic Regimes of Double – Fed Orthogonal Asynchronous Generator

Radu Boraci, Marius Babescu, Nicolae Budisan, A. R. Boraci

“Politehnica” University of Timisoara, Romania

Data Acquisition System in a Mobile Air Quality Monitoring Station

Ioana Ionel, Francisc Popescu

University “Politehnica” of Timisoara, Romania

Distant Human Motion Programming of Hexapods with the Help of Stereoscopic Visualization

Henrik Frindt, Gyula Horváth

Budapest University of Technology and Economics, Hungary

Adding Semantics to Online Learning Environments

Iasmina Ermalai, Muguras Mocofoan, Mihai Onita, Radu Vasiu

“Politehnica” University of Timisoara, Romania

15:10 **CLOSING CEREMONY** **Room A 109**

15:20 **Afternoon social event**

Excursion to Sándorfalva