
GENERAL INFORMATION

Date and Place

SACI 2004 will take place on May 25-26, 2004, at „Politehnica” University of Timisoara.

Official Language

The official language of the conference 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 in the Volume of 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.

TECHNICAL PROGRAM

Tuesday, May 25

9:00 – 9:30 *Opening Ceremony*

9:30 – 10:50 *Morning Session I*

Session Chair: **Stefan Preitl**, “Politehnica” University of Timisoara, Timisoara, Romania

- 1 Kinematics Aspects of Human Body Composite Motion
Doina Dragulescu, Mirela Toth Tascau, Vlad Morcovescu, Lucian Rusu, Mircea Dreucean, Romania
- 2 Biotechnological Processes Identification Using Dynamic Neural Networks
Marian Barbu, Sergiu Caraman, Emil Ceanga, Romania
- 3 Preference Relations in Decision Models
János Fodor, Hungary
- 4 Controller Tuning Using Genetic Algorithms
Ecaterina Emilia Vladu, Toma Leonida Dragomir, Romania

10:50 – 11:10 *Coffee Break*

11:10 – 12:30 *Morning Session II*

Session Chair: **János Fodor**, Szent István University, Budapest, Hungary

- 1 EKG Signal Recognition with Neural Network
Cosmin Cernăzanu, Dan Ciresan and Stefan Holban, Romania
- 2 On Shannon, Fisher, and Algorithmic Entropy in Cognitive Systems
Marius Crisan, Romania
- 3 Intelligent Methods for Car Deformation Modeling and Crash Speed Estimation
Annamária R. Várkonyi-Kóczy, András Rövid, Péter Várlaki, Hungary
- 4 Fuzzy Logic Decision Rules in Two Input-Single Output Linear Time-varying

Systems Control Radu-Emil Precup, Stefan Preitl, Romania	
12:30 – 14:00	<i>Lunch</i>
14:00 – 15:40	<i>Afternoon Session I</i>
<u>Session Chair:</u> Stefan Holban , “Politehnica” University of Timisoara, Timisoara, Romania	
1	Base Changing Strategies in an Adaptive Representation Evolutionary Algorithm Crina Grosan, Daniela Zaharie, Romania
2	Electrical Energy Prediction Study Case Based on Neural Networks Cristian Vasar, Octavian Prostean, Ioan Filip, Iosif Szeidert, Romania
3	Soft Computing Method for Determining the Safety of Technological System by IEC 61508 László Ormos, István Ajtonyi, Hungary
4	Artificial Intelligence Techniques In An Evaluation And Decision System For Economic Activity Nicolae Morariu, Romania
5	Error Propagation Study for Gutowitz Encryption Algorithm Daniel-Ioan Curiac, George Serban Vremescu, Romania
15:40 – 16:00	<i>Coffee Break</i>
16:00 – 17:40	<i>Afternoon Session II</i>
<u>Session Chair:</u> Radu-Emil Precup , “Politehnica” University of Timisoara, Timisoara, Romania	
1	Standard Selection of Objects within a Wood Construction CAD System G. Cristian Savii, Romania
2	Applying Fuzzy Logic to Admission Control in GPRS/EGPRS Networks Doru Todinca, Romania
3	Welding Equipment with Improved Digital Control Krisztián Lamár, Péter Zalotay, Endre Borbély, Hungary

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| 4 | Secure Web Access Control Algorithm
Ioan Filip, Iosif Szeidert, Cristian Vasar , Romania |
| 5 | A Computational Methodology for Linguistic Rules
Konstantinos Fouskakis , Romania |

18:00	<i>Welcome Reception</i>
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Wednesday, May 26

9:00 – 10:40 *Morning Session I*

Session Chair: **Annamária R. Várkonyi-Kóczy**, Budapest University of Technology and Economics, Budapest, Hungary

- 1 Fuzzy Reliability for a System with N Components
Cornelia Victoria Anghel, Romania
- 2 Searching for the Lost Noise: the Genetical Experiments
Ioan Hălălae, Romania
- 3 Features of Non-linear Robot Position-controllers by Simulation of Control Model
István Szénásy, Hungary
- 4 ECG Analysis System, Using a Multi-Layer Neural Network
Dumitru Ostafe Eugenia Iancu Sorin Vlad Paul Pascu, Romania
- 5 A Comparative Study of Association Rules Mining Algorithms
Cornelia Györödi, Robert Györödi, Stefan Holban, Romania

10:40 – 11:00 *Coffee Break*

11:00 – 12:40 *Morning Session II*

Session Chair: **Toma Leonida Dragomir**, “Politehnica” University of Timisoara, Timisoara, Romania

- 1 A Survey Of Interpolative Methods Based on Rules and their Applications in Control Structures
Sanda Dale, Alexandru Bara, Romania
- 2 SMARTFACTORY - an Implementation of the Domain Driven Development Approach
Emanuel Țundrea, Philippe Lahire, Didier Parigot, Ciprian-Bogdan Chirilă, Dan Pescaru, Romania
- 3 Extending the Unified Problem-solving Method Development Language

Calin Sandru, Viorel Negru, Romania	
4	The Advantage of Using Artificial Neural Networks in Economy Eugenia Iancu, Doru Tiliute, Romania
5	A Contour Based Descriptor for Object Recognition Cezar Popescu, Romania
12:40 – 14:00 <i>Lunch</i>	
14:00 – 14:40 <i>Afternoon Session</i>	
<u>Session Chair:</u> Imre J. Rudas , Budapest Polytechnic, Budapest, Hungary	
1	Error Correction of Co-ordinate Measuring Machines Gyula Hermann, Hungary
2	Adaptive Nonlinear Vibration Control Based on Casual Time-invariant Green Functions and on a Novel Branch of Soft Computing József K. Tar, Imre J. Rudas, János F. Bitó, Hungary, José A. Tenreiro Machado, Portugal
3	The Road in Software Engineering Education from Structured Programming to Object-Oriented Modelling József Tick, Hungary
4	Behavior Model Assisted Decisions in Active Modeling Supported Engineering László Horváth, Imre J. Rudas, Hungary, Gerhard Hancke, South Africa
5	Software Development with Quality Control Marianna Lendvay, Attila L. Bencsik, Hungary
14:40 <i>Closing Ceremony</i>	
17:00 <i>Banquet</i>	