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## SISY 2005 Technical Program

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August 31, 2005, Wednesday

### Town Hall

*address: Gradska kuca  
Trg Slobode 1.  
Svečana sala*

- 9:00 – 9:30      **OPENING CEREMONY**
- 9:30 – 10:15    **PLENARY SESSION I**  
**Copulas as Aggregation Operators**  
*Endre Pap*, Serbia and Montenegro  
  
Session Chair: *János Fodor*
- 10:15 – 10:30   **Coffee Break**
- 10:30 – 11:15   **PLENARY SESSION II**  
**The Cycle-transitivity Framework**  
*Bernard De Baets*, Belgium  
  
Session Chair: *Imre J. Rudas*
- 11:15 – 12:00   **PLENARY SESSION III**  
**Preference Relations and their Generator Functions**  
*Bernard De Baets*, Belgium, *János Fodor*, Hungary  
  
Session Chair: *Endre Pap*
- 12:00 – 13:00   **Town Hall visit**
- 13:00 – 14:00   **Lunch**

### AFTERNOON SESSIONS

**Polytechnical Engineering College**  
*address: Marka Oreskovicica 16*

- 14:00 – 16:00   **Session TECHNICAL APPLICATIONS**  
  
Session Chair: *Aleksandar Takači*
- 14:00 – 14:20   **Neural Motor Control**  
*Péter Odry, Gábor Kávai*, Serbia and Montenegro
- 14:20 – 14:40   **Reliability Analysis of Electronic Systems using Markov Models**  
*István Matijevics, Zoltán Jeges*, Serbia and Montenegro

- 14:40 – 15:00 **Geometric Identification and Control of Nonlinear Dynamic Systems Based on Floating Basis Vector Representation**  
*József K. Tar, Imre J. Rudas, Miklós Rontó, Hungary*
- 15:00 – 15:20 **Vector Interpolative Logic**  
*Dragan Radojević, Zvonko Marić, Serbia and Montenegro*
- 15:20 – 15:40 **IIR Half-band Filter Design with TMS320VC33 DSP**  
*Ottó Nyári, Tibor Szakáll, Péter Odry, Serbia and Montenegro*
- 15:40 – 16:00 **Fractal Analysis of Artificial and Cerebellar Signals at Sampling Frequencies of 32-4096 Hz**  
*Sladjana Spasić, Milka Čulić, Gordana Grbić, Ljiljana Martać, Aleksandar Jovanović, Serbia and Montenegro*
- 16:00 – 16:20 **Coffee Break**
- 16:20 – 19:00 **Session MATHEMATICAL MODELS**  
Session Chair: *Károly Nagy*
- 16:20 – 16:40 **Weak Convergence of Random Sets**  
*Endre Pap, Tatjana Grbić, Ljubo Nedović, Nebojša M. Ralević, Serbia and Montenegro*
- 16:40 – 17:00 **Pseudo-Laplace Type Transform Based on a Pair of Generated Pseudo-Operations with Two Parameters as Pseudo-aggregation Operator**  
*Ivana Štajner-Papuga, Serbia and Montenegro*
- 17:00 – 17:20 **Difference Representations of the Choquet Integral with Respect to a Signed Fuzzy Measure**  
*Biljana Mihailović, Endre Pap, Nebojša Ralević, Serbia and Montenegro*
- 17:20 – 17:40 **Max-Product Shepard Approximation Operators**  
*Barnabás Bede, Hungary, Hajime Nobuhara, Japan, János Fodor, Hungary, Kaoru Hirota, Japan*
- 17:40 – 18:00 **Modeling Decision Making under Uncertainty and Vagueness**  
*Otilija Sedlak, Zoran Ćirić, Serbia and Montenegro*
- 18:00 – 18:20 **Newton's Method with Accelerated Convergence Modified by an Aggregation Operator**  
*Tibor Lukić, Nebojša M. Ralević, Serbia and Montenegro*
- 18:20 – 18:40 **Student Profile Based Virtual Classroom**  
*József Gáti, Gyula Kártyás, Hungary*
- 18:40 – 19:00 **Error Analysis and Correction of a High Precision Co-ordinate Table**  
*Gyula Hermann, Hungary*
- 19:00 **DINNER**

September 1, 2005, Thursday

Polytechnical Engineering College  
address: Marka Oreskovicica 16

- 9:00 – 11:00    **Session MODELING**  
*Session Chair: Péter Odry*
- 9:00 – 9:20    **A Fast Learning Method Using Cost Matrices for Morphological Neural Networks**  
*Hajime Nobuhara, Japan, Barnabás Bede, Hungary, Kaoru Hirota, Japan*
- 9:20 – 9:40    **The Syntax Zooming**  
*Aleksandar Perović, Nedeljko Stefanović, Aleksandar Jovanović, Serbia and Montenegro*
- 9:40 – 10:00    **An Integrated Approach to Model Driven Control of Robots at Placing for Assembly**  
*László Horváth, Imre J. Rudas, Hungary*
- 10:00 – 10:20    **Automatic Construction of Surface Model**  
*Miroslav Marić, Filip Marić, Žarko Mijajlović, Boško Jovanović, Serbia and Montenegro*
- 10:20 – 10:40    **Application of Stochastic Adding A/D Conversion in Adaptive Measurement and Fuzzyfication**  
*Károly Nagy, Vladimir Vujičić, Serbia and Montenegro*
- 10:40 – 11:00    **Analysing Time Series Data by Means of Forecasting Models**  
*Zita Bošnjak, Miodrag Stojković, Saša Bošnjak, Serbia and Montenegro*
- 11:00 – 11:20    **Coffee Break**
- 11:20 – 13:20    **Session E-LEARNING**  
*Session Chair: Márta Takács*
- 11:20 – 11:40    **E-learning – A Prerequisite for the Web Authoring System Realization**  
*Sanja Maravić Čisar, Dragica Radosav, Serbia and Montenegro*
- 11:40 – 12:00    **An e-Learning Multilingual Dictionary (OpenDict)**  
*Livia Szedmina, Zlatko Covic, Theresa Gattringer-Sabino, Markus Risthaus, Serbia and Montenegro*
- 12:00 – 12:20    **Comparison of E-Learning Platforms**  
*Robert Pinter, Dragica Radosav, Serbia and Montenegro*
- 12:20 – 12:40    **Orientation and Guidance within Doors**  
*Marianna Sipos, Hungary*
- 12:40 – 13:00    **Models of Oligopolist's Behaviour in the Market**  
*Éva Pataki, Serbia and Montenegro*
- 13:00 – 13:20    **How to Implement FSQL and Priority Queries**  
*Aleksandar Takači, Srđan Škrbić, Serbia and Montenegro*
- 13:30 -        **TRIP**