
SISY 2004 Technical Program

October 1, 2004, Friday

Town Hall

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

- 9:30 – 9:50 **OPENING CEREMONY**
- 9:50 – 10:30 **PLENARY SESSION I**
GPS Network in Serbia
Dusan Petrovački, Zora Konjovic, Miro Gobedarica, Serbia and Montenegro
- Session Chair: *Imre J. Rudas*
- 10:30 – 11:10 **PLENARY SESSION II**
Fuzzy Model Identification
László T. Kóczy, Hungary
- Session Chair: *Imre J. Rudas*
- 11:10 – 11:50 **PLENARY SESSION III**
Decision Making Based on Aggregation Operators
Endre Pap, Serbia and Montenegro
- Session Chair: *János Fodor*
- 11:50 – 12:00 **COFFEE BREAK**
- 12:00 – 12:40 **PLENARY SESSION IV**
Uncertainty and Risk: Mathematical Concepts and Some Geological Applications
János Fodor, György Bárdossy, Hungary
- Session Chair: *Annamária R. Várkonyi-Kóczy*
- 12:40 – 13:20 **PLENARY SESSION V**

Fuzzy control of brush motor - problems of computing
Péter Odry, Szabolcs Divéki, Nándor Burány, László Gyantár,
Serbia and Montenegro

Session Chair: *Márta Takács*, Serbia and Montenegro

13:20 – 15:00 **LUNCH**

AFTERNOON SESSIONS

Polytechnical Engineering College
address: Marka Oreskovica 16

15:00 – 16:15 **AFTERNOON SESSION I**
ROOM SUBOTICA

Session Chair: *Miomir Vukobratović*

15:00 – 15:15 **Introduction**
Miomir Vukobratovic, Serbia and Montenegro

15:15 – 15:35 **Contribution to the Study of Humanoid Robots
Anthropomorphism**
Miomir Vukobratović, Branislav Borovac, Kalman Babković,
Serbia and Montenegro

15:35 – 15:55 **Contribution to the Integrated Control of Artificial Human
Gait**
Miomir Vukobratović, Aleksandar D. Rodić,
Serbia and Montenegro

15:55 – 16:15 **Control Algorithm for Biped Walking Using Reinforcement
Learning**
Dusko Katić, Miomir Vukobratović, Serbia and Montenegro

16:15 – 16:30 **COFFEE BREAK**

16:30 – 18:30 **AFTERNOON SESSION II**
ROOM SUBOTICA

Session Chair: Endre Pap

- 16:30 – 16:50 **Choquet and Sugeno Integrals-based Functional Representation**
Biljana Mihailović, Endre Pap, Serbia and Montenegro
- 16:50 – 17:10 **Distorted Generalized Pseudo-Laplace Type Transforms**
Endre Pap, Ivana Štajner-Papuga, Serbia and Montenegro
- 17:10 – 17:30 **Large Deviation Convergence of Generated Pseudo Measures**
Ljubo Nedović, Endre Pap, Nebojša M. Ralević, Tatjana Grbić, Serbia and Montenegro
- 17:30 – 17:50 **Real relation New approach to Fuzzy relation**
Dragan Radojević, Serbia and Montenegro
- 17:50 – 18:10 **Fixed Point Theorem of Caristi's Type**
Tatjana Žikić-Došenović, Serbia and Montenegro
- 18:10 – 18:30 **Conditionally Distributive Real Semirings**
Dragan Jočić, Serbia and Montenegro
- 19:00 **DINNER**

October 2, 2004, Saturday

Polytechnical Engineering College

address: Marka Oreskovica 16

- 9:00 – 11:00 **MORNING PARALLEL SESSION III**
ROOM SUBOTICA
- Session Chair: *Gyula Mester*
- 9:00 – 9:20 **Intelligent e-Learning Portal Development**
Gyula Mester, Serbia and Montenegro
- 9:20 – 9:40 **Interactive Multimedia English Course**
Livia Szedmina, Pinter Robert, Serbia and Montenegro
- 9:40 – 10:00 **Internet Based E-Learning System**
Čović Zlatko, Serbia and Montenegro
- 10:00 – 10:20 **Feature Extraction From 3D Spectra of Electrophysiological Signals**
Milan Oklobdzija, Maja Jovanovic, Miroslav Maric, Momcilo Borovcanin, Serbia and Montenegro
- 10:20 – 10:40 **Interpretation Method in Automated Reasoning**
Aleksandar Perović, Nedeljko Stefanović, Dejan Ilić, Aleksandar Jovanović, Serbia and Montenegro
- 10:40 – 11:00 **An Approach for Connecting the Participants in the Process of Product Development in Internet Surroundings**
Igor Fuerstner, Zoran Anišić, Ilija Čosić, Serbia and Montenegro
- 9:00 – 11:00 **MORNING PARALLEL SESSION IV**
ROOM BUDAPEST
- Session Chair: *Szilveszter Pletl*
- 9:00 – 9:20 **A Proposition for Implementation of Priority Queries into FSQ**
Aleksandar Takači, Serbia and Montenegro

- 9:20 – 9:40 **Soft Computing Techniques for the Improvement of Signal Processing Algorithms**
Annamária R. Várkonyi-Kóczy, András Rövid, Gábor Samu,
Hungary
- 9:40 – 10:00 **Quantifier Elimination - Algorithms and Applications**
Milos Milosevic, Dragan Doder, Mirna Udovicic, Filip Maric,
Serbia and Montenegro
- 10:00 – 10:20 **PAL Based Localization Using Pyramidal Lucas-Kanade Feature Tracker**
Zoltán Vámosy, Ákos Tóth, Péter Hirschberg, Hungary
- 10:20 – 10:40 **Nearest Neighbour Search For XML Trees**
László Kovács, Tibor Répási, Erika Baksa-Varga, Hungary
- 10:40 – 11:00 **Hierarchical Fuzzy-Adaptive Control Algorithm**
Szilveszter Pletl, Zoltán Jeges, Serbia and Montenegro
- 11:00 – 11:15 **COFFEE BREAK**
- 11:15 – 12:15 **MORNING PARALLEL SESSION V**
ROOM: SUBOTICA
- Session Chair: *Márta Takács*
- 11:15 – 11:35 **Knowledge-Based Methods for Reliability Analysis of Electric Power Networks,**
István Matjevics, Lajos Józsa, Serbia and Montenegro
- 11:35 – 11:55 **Image Interpolation Techniques**
Miklós Póth, Serbia and Montenegro
- 11:55 – 12:15 **DVB-T OFDM Modulation System**
Endre Borbély, József Bíró, Hungary
- 11:15 – 12:20 **MORNING PARALLEL SESSION VI**
ROOM: BUDAPEST
- Session Chair: *Imre J. Rudas*
- 11:15 – 11:35 **Special Aspects of Component Based Software Development**
József Tick, Hungary

- 11:35 – 11:55 **Behavior Based Modeling as an Advanced Tool for the Engineering Practice**
László Horváth, Imre J. Rudas, Hungary
- 11:55 – 12:15 **Modeling Environmental Processes with Soft Computing Methods**
Miklós Bulla, Péter Keresztes, László T. Kóczy, Éva V. P. Rácz, Hungary
- 12:15 – 12:35 **Investigation of the Effect of Time Scaling in a Soft Computing Based Control Using Fractional Order Derivatives**
József K. Tar, Imre J. Rudas, János F. Bitó, J. A. Tenreiro Machado Ágnes Szeghegyi, Hungary, Portugal**
- 13:00 - **TRIP**