

ISCAM 2006 - Programme

Friday April 7, 2006

- 12.30–13.00 Registration
13.00–13.15 Opening Ceremony (in room BC-300)
13.15–14.00 A lecture by prof. Karol Mikula (SvF STU, Bratislava):
Mathematical models and computational methods in image processing
14.10–15.30 Sessions
15.30–16.10 Coffee break
16.10–17.30 Sessions
18.00 Refreshment in the club of FEI STU

Session:A

Friday April 7, 2006

Room: AB-300

Chair: J. Paseka, M. Šabo

- 14.10–14.30 Paweł Drygaś
Remarks about Idempotent Uninorms
14.30–14.50 Ewa Rak and Paweł Drygaś
Distributivity between Uninorms
14.50–15.10 Andrea Mesiarová
 k - l_p Stability of Triangular Norms
15.10–15.30 Milan Petřík
Possibilities of Implementation of Edge-controlled Many-valued
Memory Circuit
15:30–16:10 **COFFEE BREAK**

Room: AB-300

Chair: M. Navara, J. Paseka

- 16.10–16.30 Ján Boháčik
Software for Making and Using Fuzzy Rules
16.30–16.50 Martina Daňková and Radek Valášek
Full Fuzzy Transform and the Problem of Image Fusion
16.50–17.10 Martin Štěpnička
Inference Mechanisms, Systems of Fuzzy Relational Equations and
the Additive Interpretations of Rule Bases
17.10–17.30 Karla Čipková
On a \mathcal{G} -power of Monounary Algebras
18.00 Refreshment in the club of FEI STU

Saturday April 8, 2006

- 9.00–10.20 Sessions
10.20–11.00 Coffee break
11.00–12.20 Sessions

Session:B

Friday April 7, 2006

Room: AB-150

Chair: M. Kalina, P. Sarkoci

- 14.10–14.30 Petra Korcová
An Embedding IF-sets to MV-algebras
14.30–14.50 Katarína Lendelová
On MV-algebras with Product and IF-events
14.50–15.10 Pavol Král
Similarity and Cardinalities of Interval-valued Fuzzy Sets
15.10–15.30 Barbara Pekala
Lattice of Interval Matrices
15:30–16:10 **COFFEE BREAK**

Room: AB-150

Chair: G. Jenča, M. Knor

- 16.10–16.30 Monika Horváthová
The Structure of (k, l) -central Set for some Classes of Graphs
16.30–16.50 Dušan Lacika
Graph Problems in Zero-Knowledge Proofs
16.50–17.10 Tomáš Vetrík
Factorisation of Complete Graphs
17.10–17.30 Mária Trnovská
Weighted Central Path in Semidefinite Programming Associated with
Symmetrization Map $(SX + XS)/2$
18.00 Refreshment in the club of FEI STU

Session:C**Friday April 7, 2006**

Room: BC-150	Chair: M. Komorníková, D. Ševčovič, J. Zemánek
14.10–14.30	Andrej Balciar On Stability of Equilibrium in a Model Maximizing Free Value Added
14.30–14.50	Michal Červinka A Numerical Approach to Weak Pareto Solutions to Equilibrium Problems with Complementarity Constraints
14.50–15.10	Soňa Kilianová Pension System in Slovakia
15.10–15.30	Beáta Stehlíková Fast Mean Reverting Volatility in Fong-Vasicek Model of Interest Rates
15:30–16:10	COFFEE BREAK

Room: BC-150	Chair: O. Grošek, Š. Porubský, L. Satko
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16.10–16.30	Zuzana Ševčíková Huffman Coding vs. Shannon-Fano Coding
16.30–16.50	Marek Sýs Knight Tour Problem and Latin Squares
16.50–17.10	Pavol Zajac N-Gram-Based Cryptanalysis of Classical Substitution Ciphers
17.10–17.30	Miroslav Červenka Relay Node Placement in Energy-Constrained Networks Using SOMA Evolutionary Algorithm
18.00	Refreshment in the club of FEI STU

Session:A**Saturday April 8, 2006**

Room: AB-300	Chair: G. Kalmbach, M. Navara
9.00– 9.20	Ondřej Polakovič and Radek Valášek Some Methods of Robot's Movement Control and Their Comparison
9.20– 9.40	Dagmar Plšková Fuzzy Transform in Geological Applications
9.40–10.00	Lenka Nosková Extreme Solutions of System of Fuzzy Relation Equations with Triangular Fuzzy Sets
10.00–10.20	Marek Hyčko Properties of Subinterval Algebras on (Pseudo) BL-algebras
10.20–11.00	COFFEE BREAK

Room: AB-300	Chair: J. Paseka, P. Sarkoci
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11.00–11.20	Józef Drewniak and Joanna Stępień Weak Properties of Fuzzy Relations
11.20–11.40	Urszula Dudziak Transitivity Properties of Fuzzy Relations and their Preservation by Operations
11.40–12.00	Anna Król Operations in the Family of Functions with sup Property
12.00–12.20	Rastislav Matúš and Dagmar Zelisková Selection of the Appropriate Copula for Discrete Data

Session:B

Saturday April 8, 2006

Room: AB-150

Chair: M. Komorníková, O. Nanásiová

- 9.00– 9.20 Tomáš Bacigál
Multivariate LSTAR in Geodesy
- 9.20– 9.40 Martina Hančová
Finite Discrete Spectrum Linear Regression Models in Time Series Theory
- 9.40–10.00 Radosław Wieczorek
On some Individual Based Model of Phytoplankton
- 10.20–11.00 **COFFEE BREAK**

Room: AB-150

Chair: G. Jenča, M. Kalina, G. Kalmbach

- 11.00–11.20 Sylvia Pulmannová and Elena Vinceková
Sharp and Fuzzy Observables on σ -effect Algebras
- 11.20–11.40 Alžbeta Michalíková and Veronika Valenčáková
Outer Measure on \mathcal{F} -sets
- 11.40–12.00 Alžbeta Michalíková
On the Daniell Integral with Values in Riesz Space
- 12.00–12.20 Magdaléna Renčová
On the Measure-preserving Maps on the Lukasiewicz Square
- 12.20–12.40 Pavel Rusnok
Three Approaches to Measures on Fuzzy Sets

Session:C

Saturday April 8, 2006

Room: BC-150

Chair: I. Bock, M. Zajac, J. Zemánek

- 9.00– 9.20 Edyta Leś-Bomba
Generalized Problem of Starlikeness in the Class of Meromorphic Starlike Functions
- 9.20– 9.40 Ján Haluška and Ondrej Hutník
Some Aspects of Reproducing Kernels in Bergman Spaces
- 9.40–10.00 Joanna Kowalczyk
On Certain Nonlinear Differential Subordinations in the Theory of Analytic Functions
- 10.00–10.20 Zuzana Pátíková
Hille-Wintner type Comparison Criteria for Half-linear Second Order Differential Equations
- 10.20–11.00 **COFFEE BREAK**

Room: BC-150

Chair: I. Bock, K. Mikula, Z. Riečanová

- 11.00–11.20 Oľga Drblíková
Semi-implicit Finite Volume Schemes for Solving Tensor Diffusion in Image Processing
- 11.20–11.40 Zuzana Fašková
Application of The Finite Element Method to the Geodetic Boundary Value Problem in Europe
- 11.40–12.00 Mária Stachová and Miroslav Medveď
The Refinement of Interval Dividing in the Romberg Differentiation Procedure
- 12.00–12.20 Štefan Babinec
Time Series Prediction with Echo State Neural Networks Adapted by Backpropagation