Programme

Thursday, May 20, 2010

Venue

Friday, May 21, 2010

12.30 – 13.15 Registration 13.15 – 13.30 Opening

13.30 - 14.15

Karol Mikula: Mathematical methods for 4D image analysis in biology and medicine

14.30 - 16.00

Section A (chair: Karol Mikula)

Dana Kotorová: Discrete duality finite volume scheme for the curvature driven level set equation

Radka Malíková: On Helmholtz-like Forms

Radka Poláková: Constrained problems Solved by Competitive Differential Evolution

Ivan Prcúch: Finite Element Method on Surfaces

Martina Stolařová: Perpendicular pursuit motion as a model of nonholonomic mechanical system

Kamila Vopatová: Kernel choosing with respect to the bandwidth in kernel density estimates

Section B (chair: Radko Mesiar)

Iveta Bebčáková, Jana Talašová: On the application of the fuzzified Choquet integral to multiple criteria decision making

Pavel Holeček and Jana Talašová: Software for Multiple Criteria Evaluation Support - The Aggregation of Partial Evaluations by Choquet Integral

Martin Takáč: Mathematical analysis of a class of path-dependent options

Jan Stoklasa, Jana Talašová: A Fuzzy Model Of Academic Staff Evaluation

Lucia Vavríková: Assessment of University departments based on multicriteria decision making and aggregation operators

Blanka Zemková, Jana Talašová: Fuzzy Sets in HR Management

Section C (chair: Ol'ga Nánásiová)

Ahmed Al-adilee: Properties of Common Cause in Quantum Logic

Vladimír Jágr: Extreme-Value Copulas

Monika Juráňová: On two classes of generated copulas

Erich Peter Klement, Maddalena Manzi, Radko Mesiar: Ultramodular aggregation functions and a new construction method for copulas

Milan Petrik and Peter Sarkoci: Visual characterisation of associativity of triangular norms

Štefánia Václavíková, Oľga Nánásiová, Elena Pastuchová: Classification of association coefficients and its application

16.00 – 16.30 Cofee break

Section A (chair: Martin Štepnička)

Michal Janošek: ALCore - Artificial life simulator

Miroslav Langer: On Positioned Eco-grammar Systems

Libor Pučok: Linguistic Fuzzy Control of Magnetic Levitation

Iva Tomanová: Another approach to mining of linguistic associations

Katarína Cechlárová and Eva Pillárová: A near equitable 2-person cake cutting algorithm

Section B (chair: Jana Talašová)

Edurne Falcó, José Luis García-Lapresta: A distance-based extension of the Majority Judgement voting system

José Luis García-Lapresta, Bonifacio Llamazares, Patrizia Pérez-Asurmendi: Avoiding inconsistencies in majority decisions

Robert Bystrický: Voting systems under the scrutiny of aggregations operators

Petr Krajča: Parallel Algorithms for Formal Concept Analysis

Juraj Macko: Valued formal concept analysis

Petr Osička: Algorithm for approximate decomposition of boolean matrices using their conceptual structure

Section C (chair: Babak Daneshvar)

Çağri Alpak, Halil Ceylan, Babak Daneshvar Rouyendegh, Turan Erman Erkan: A study about Analytic Hierarchy Process (AHP) Implementations for Internal Processes and Supplier Selection Process at Procurement Department of a university in Turkey

Babak Daneshvar Rouyendegh and Mahdi Bagherzadeh Asl Miyandoab: Selecting the High - Performing Departments within Universities Applying the Fuzzy ELECTRE Method

Babak Daneshvar Royendegh, Turan Erman Erkan, Ayşe Kılıç: Personnel Selection Using Fuzzy Analytic Hierarchy Process (FAHP): An Application

Sertaç Olgun, Serpil Erol, Babak Daneshvar Rouyendegh: An Application about Performance of Air Cargo Carriers via DEA AND AHP Methods

Veysel Emre Tuncer, Babak Daneshvar Rouyendegh, Turan Erman Erkan: A Data Envelopment Analysis-Fuzzy Analytic Hierarchy Process Combined Methodology To Evaluate The Performance Of International Airports In Turkey

Ahmet Maraşligil, Babak Daneshvar Rouyendegh, Turan Erman Erkan: A Study Of The Relative Efficiency Of Supermarkets; A Pilot Application In Turkey Using Data Envelopment Analysis

18.15 Festive dinner

Saturday, May 22, 2010

9.00 - 10.15

Section A (chair: Tomáš Bacigál)

Pavla Dokoupilová: A Confidence Interval for the Probability Difference of Overall Treatment Effects - Simulation Study

Jana Kelemenová and Mária Kuková: Central limit theorem on MV-algebras Anna Petričková: Modelling of dependence structure of the regime-switching models

residuals using autocopulas

Jana Lenčuchová: Testing of Markov assumptions based on the dynamic specification test

C. Lopez-Molina, H. Bustince, B. De Baets: On the parameterization of Baddeley's error metric

Section B (chair: Daniel Ševčovič)

Karina Chudá: S(2,1)-labeling of graphs with cyclic structure

Mária Ždímalová: A note on large Cayley graphs of diameter two and given degree *Martin Lauko and Daniel Ševčovič:* Comparison of numerical and analytical

approximations of the early exercise boundary of the American put option

Petra Medved'ová: Dynamic Model of a Small Open Economy Under Flexible Exchange Rates

Batyrkhan Omarov: Solution of applied tasks with parallel programming

10.15 – 10.45 Cofee break 10.45 – 12.00

Section A

(chair: Balasubramaniam Jayaram)

A. Jurio, D. Paternain, J. Fernandez, C. Lopez-Molina: Construction of Interval-Valued Intuitionistic Fuzzy Sets from Fuzzy Sets. Some Operators

D. Paternain, A. Jurio, E. Barrenechea, H. Bustince: Construction of Atanassov's Intuitionistic Fuzzy Sets from Fuzzy Sets. Some operators

J. Sanz , D. Jurío , A. Fernández, F. Herrera, H. Bustince: Using Similarity Measures in Fuzzy Rule-Based Classification Systems with Interval-Valued Fuzzy Sets

M. Galar, J. Sanz, M. Pagola, G. Beliakov, H. Bustince: On the use of Interval-Valued Fuzzy Sets in Stereo Matching problem

Vladislav Biba: Fuzzy preference structures based on generated implications

Section B (chair: Martina Danková)

Irina Perfilieva, Hoďáková Petra, Michaela Wrublová: Graphical Support of Similarity Based Fuzzy Interpolation

Tomas Kuhr: Confluence and Termination of Fuzzy Relations: A Survey of Results *Lenka Vavříčková:* Perception-based Logical Deduction and the Problem of Redundant Fuzzy Rules

Martin Dyba and Vilém Novák: EQ-logics: logics developed on the basis of fuzzy equality

Jan Konečný: Relational Galois Connections in the Fuzzy Setting

12.15 Lunch

Sunday, May 23, 2010

Departure