FSTA 2012 preliminary program

Monday - January 30, 2012

09:00 – 09:15  OPENING OF THE CONFERENCE
09:15 – 10:05  H. Bustince: Extensions of fuzzy sets in knowledge representation
10:05 – 10:30  Coffee break
10:30 – 11:20  M. Navara: Computation in orthomodular lattices
11:20 – 12:10  J. Fodor: Migrative type functional equations for triangular norms
12:15  Lunch
16:00 – 16:20  Coffee break

Section A
16:20 – 16:40  J. Niederle, J. Paseka: Musings about Triple Representation Theorem for effect algebras
16:40 – 17:00  F. Chovanec: Distributive MV-algebra pastings
17:00 – 17:20  M. Kalina: On completion of Archimedean atomic lattice effect algebras
17:20 – 17:40  M. Hyčko: Pre-pseudoeffect algebras
17:40 – 18:10  J.M. Gabriëls: Shall we find normal forms in orthomodular lattices?

Section B
16:20 - 16:40  E. De Amo et al.: Duality of aggregation operators and the explicit expression of k-negations
16:40 - 17:00  E.P. Klement, R. Mesiar: Aggregation functions and ultramodularity
17:00 - 17:20  A. Kolesárová, A. Stupňanová: Non-standard Möbius transform-based extensions of boolean utility functions
17:20 - 17:40  A. Stupňanová, A. Kolesárová: Aggregation functions and the associativity in the sense of Post
17:40 - 18:00  J. Fernandez et al.: Internal operators: Application to image fusion
18:05  Dinner
19:30  LaTeX WORKSHOP
Tuesday - January 31, 2012

08:40 - 09:30  R. Ghiselli Rici: Foundations of aggregation functions theory
09:30 - 10:00  Coffee break

Section A
10:00 - 10:20  S. Jenei: Uninorms – state of the art with recent results
10:20 - 10:40  P. Drygaś: Some problems for uninorms
10:40 - 11:00  J. Dombi: Modifiers based on connectives
11:00 - 11:20  E. Rak: Some properties of increasing binary operations
11:20 - 11:40  V. Biba et al.: Implicators generated by increasing functions
11:40 - 12:00  V. Janiš et al.: Convexity based on a t-norm

Section B
10:00 - 10:20  M. Daňková, I.Perfilieva: Advances in fuzzy transform based image fusion
10:20 - 10:40  I.Perfilieva, M. Daňková: Two approaches to image fusion
10:40 - 11:00  I. Vavilcenkova, S. Asmuss: On spline based fuzzy transforms
11:00 - 11:20  M. Bohdalová, M. Greguš: Aggregation and portfolio diversification
11:20 - 11:40  M. Klimo, O. Šuch: Idea of memristor based computer
11:40 - 12:00  L. Šipeky: Computerized real time tuning
12:05  Lunch
16:00 - 16.20  Coffee break

Section A
16:20 - 16:40  M. Ćirić et al.: Eigen fuzzy sets equations and related inequalities
16:40 - 17:00  M. Ćirić et al.: Fuzzy relation equations and fuzzy automata
17:00 - 17:20  B. Budimirović et al.: Fuzzy identities and fuzzy equational classes
17:20 - 17:40  O. Grigorenko: Fuzzy orders for solving MOLP problems
17:40 - 18:00  M. Holčapek: Relations between graded equipollence and fuzzy c-measures of finite fuzzy sets

Section B
16:20 - 16:40  R. Mesiar, P. Sarkoci: Vertical mixtures of copulas
16:40 - 17:00  T. Bacigál: On some copula related software tools
17:00 - 17:20  M. Sabo: Uncertainty in clustering
17:20 - 17:40  A. Petričková: Copula approach to modeling of ARMA and GARCH models residuals
17:40 - 18:00  D. Szőkeová, S. Kohnová: Multistage SETAR models with regime switching by means of the aggregation function value
18:05  Dinner
19:30  OPEN PROBLEMS SESSION
Wednesday - February 1, 2012

Section A
08:40 – 09:00  A. Dvurečenskij: State-morphism MV-algebras and their generalizations
09:00 – 09:20  A. Jenčová et al.: Observables on sigma-MV algebras and sigma-lattice effect algebras
09:20 – 09:40  M. Kuková: Strong law of large numbers on the Kôpka D-posets

Section B
08:40 – 09:00  S. Greco, F. Rindone: Robust integrals
09:00 – 09:20  E.P. Klement, R. Mesiar: An axiomatic approach to some fuzzy integrals
09:40 - 10:10  Coffee break

Section A
10:10 - 10:30  J. Ignjatović et al.: Equations and inequalities defined by residuated functions
10:30 - 10:50  Z. Takáč: On subsethood measure of type-2 fuzzy sets
10:50 - 11:10  B. Šešelja et al.: Various versions of weak reflexivity of fuzzy relations and applications
11:10 - 11:30  U. Dudziak: On aggregation of graded properties of fuzzy relations
11:30 - 11:50  Z. Matusiewicz, J. Drewniak: Increasing, continuous operations in fuzzy max-* equations and inequalities

Section B
10:10 - 10:30  T. Vetterlein: Fuzzy logic and the similarity-based interpretation of fuzzy sets
10:30 - 10:50  L. Běhounek: Plurvaluationistic models of vagueness in logic-based fuzzy mathematics
10:50 - 11:10  P. Murinová, V. Novák: Analysis of generalized square of opposition with intermediate quantifiers
11:10 - 11:30  D. Čimoka, A. Šostak: On L-fuzzy syntopogeneous structures
11:30 - 11:50  I. Uljane, A. Šostak: L-valued bornologies generated by fuzzy metrics
12:00  Lunch
13:30  SOCIAL EVENT
18:00  Dinner
19:30  CONCERT OF CONFERENCE PARTICIPANTS AND THEIR GUESTS
Thursday - February 2, 2012

08:40 – 09:30 D. Dubois: The structure of qualitative capacities
09:30 – 10:00 *Coffee break*

**Section A**

10:00 - 10:20 P. Pazhoheshfar et al.: Penalized trimmed squares and quadratic mixed integer programming for deleting outliers in fuzzy linear programming
10:40 - 11:00 D. Dance: On multi-objective linear programming approach for solving fuzzy matrix games
11:00 - 11:20 P. Orlovs, O. Montvida: An aggregation operator designed for solving bilevel linear programming problems
11:40 - 12:00 O. Nánásiová, M. Bohdalová, M. Kalina.: A note to stochastic processes

**Section B**

10:00 - 10:20 R. Frič, M. Papčo: Domains of fuzzy probability I
10:20 - 10:40 R. Frič, M. Papčo: Domains of fuzzy probability II
10:40 - 11:00 J. Kupka: Similarities and differences of induced (set-valued and fuzzy) discrete dynamical systems
11:00 - 11:20 B. Riečan: Strong Poincaré recurrence theorem without weak distributivity
11:20 - 11:40 L. Halčinová: On probabilistic submeasures
11:40 - 12:00 O. Hutník: Triangular norms based submeasures
12:05 *Lunch*
16:00 - 16:20 *Coffee break*

**Section A**

16:20 - 16:40 A. Eļkins, A. Šostaks: Rough sets generated by a pair of monoidal type structures
16:40 - 17:00 G. Jenča: Ortholattices from graphs
17:00 - 17:20 R. Madarász: Algebras of fuzzy sets
17:20 - 17:40 L. Antoni, S. Krajči: Quality measure of fuzzy formal concepts

**Section B**

16:20 - 16:40 M. Baczyński: Distributivity of implications over t-representable operations in interval-valued fuzzy sets theory
16:40 - 17:00 R. Hanesová: The theory of functions on IF-sets
17:00 - 17:20 P. Kráľ, M. Renčová: Specificity measures and cardinalities of interval-valued fuzzy sets
17:20 - 17:40 J. Špirková, V. Hladovský: Copula models in life insurance
19:30 *BANQUET*
Friday - February 3, 2012

09:00 – 09:50  M. Štepnička: On implicative fuzzy models and their mathematical properties

09:50 – 10:20  Coffee break

10:20 - 11:10  J. Vejnarová: Multidimensional possibilistic models

11:10 - 12:00  J. Talašová et al.: A framework for fuzzy models of multiple-criteria evaluation

12:00 - 12:05  CLOSING OF THE CONFERENCE

12:05  Lunch