

FSTA 2008 Program

Monday, February 4, 2008

9.00 - 9.15 Opening of the conference

9.15 - 10.10

S. Saminger-Platz: Triangle functions – what they are and what they are good for?

10.10 - 11.05

F. Spizzichino: Stochastic Dependence and Ageing. An applications-oriented view of copulas and semi-copulas

11.05 - 11.30 Coffee break

Session A

11.30 - 11.50 C. Sempì: Some families of bivariate copulas

11.50 - 12.10 M. Hofert: Sampling Archimedean copulas

12.10 - 12.30 M. Hofert, M. Scherer: CDO pricing with nested Archimedean copulas

Session B

11.30 - 11.50 M. Šabo: On Some Properties of Fuzzy Connectives in Fuzzy Controllers

11.50 - 12.10 M. Štěpnička, B. De Baets, M. Daňková: Monotonicity of implicative fuzzy models.

12.10 - 12.30 J. Kupka: (Fuzzy) Dynamical Systems

Session C

11.30 - 11.50 R. Frič, M. Papčo: D-posets of fuzzy sets: a categorical approach I.

11.50 - 12.10 R. Frič, M. Papčo: D-posets of fuzzy sets: a categorical approach II.

12.10 - 12.30 S. Asmuss, V Ruzha: On a construction of an L-fuzzy valued measure of L-sets

16.20 - 16.40 Coffee break

Session A

16.40 - 17.00 T. Bacigál: Fitting Archimax copula to bivariate data in R

17.00 - 17.20 F. Durante: Multivariate distribution functions with given marginals

17.20 - 17.40 F. Durante, R. Mesiar: How non-symmetric can an Archimax copula be?

Session B

16.40 - 17.00 B. Šešelja: Fuzzy totally intransitive relations and fuzzy orderings

17.00 - 17.20 A. Šostak: Approximative fuzzy systems and approximative fuzzy spaces

17.20 - 17.40 D. Szökeová: Markov switching model for hydrologic time series

Session C

16.40 - 17.00 V. Valenčáková: MV-algebras with product

17.00 - 17.20 B. Riečan: General form of M-probabilities on IF-events

17.20 - 17.40 K. Čunderlíková: Individual ergodic theorem on family of IF-events with product

Tuesday, February 5, 2008

8.30 - 9.25

M. Baczyński: Fuzzy implications: historical overview and state-of-the-art

9.25 – 10.20

A. Di Nola: Local MV-algebras: a survey

10.20 – 10.50 Coffee break

Session A

10.50 - 11.10 J. Drewniak, A. Król: Families of weak connectives

11.10 - 11.30 U. Dudziak: Weak properties of fuzzy relations in the context of aggregation process

11.30 - 11.50 P. Drygaś: On some properties of uninorms

11.50 - 12.10 B. Jayaram, M. Baczyński: Some new results on t-norms, their natural negations and their residuum

Session B

10.50 - 11.10 S. Jafari, R.M. Latif: On some notions in the context of fuzzy θ -open sets and fuzzy θ -closure operator

11.10 - 11.30 O. Lebedeva: Generalized fuzzy POS category

11.30 - 11.50 S. Solovjovs: On a generalization of Goguen's category Set(L)

11.50 - 12.10 I. Uljane: Extending L-valued relations to the L-powersets

Session C

10.50 - 11.10 E. Drobná, F. Chovanec, F. Kôpka, O. Nánásiová: Conditional states on D-posets

11.10 - 11.30 F. Kôpka: On Product on Boolean D-Posets

11.30 - 11.50 A. Mohammed, O. Nánásiová: Orthomodular lattice and copula

11.50 - 12.10 O. Nánásiová, Ľ. Valášková: S-maps and d-maps on an orthomodular lattice

16.20 - 16.40 Coffee break

Session A

16.40 - 17.00 R. Mesiar, A. Stupňanová: Level-dependent integrals

17.00 - 17.20 M. Cardin, M. Manzi: Aggregation functions: an approach using copulae

17.20 - 17.40 J. Kalická: On some construction methods for 1-Lipschitz aggregation functions

Session B

16.40 - 17.00 A. Tepavčević: Representations of families of subsets by lattice valued fuzzy sets

17.00 - 17.20 M. Holčapek: Graded Equipollence of L-fuzzy Sets

17.20 - 17.40 G. Jenča: Embedding lattices into orthomodular lattices

Session C

16.40 - 17.00 T. Grbić, M. Daňková, I. Štajner-Papuga: Properties of the pseudo Riemann-Stieltjes integral

17.00 - 17.20 D. Vivona, I. Štajner-Papuga: Generalized generated pseudo-operations as a base for the pseudo-linear superposition principle for the Monge-Ampère equation

17.20 - 17.40 E. Pap, T. Grbić: Pseudo-weak convergence of the sequence of random closed sets

Wednesday, February 6, 2008

Session A

- 8.30 - 8.50 R. Foschi: Threshold copulas, iper-dependence and evolution of ageing
8.50 - 9.10 G. Nappo, F. Spizzichino: Relations between the Kendall distribution and the family of the level sets of a bivariate survival model
9.10 - 9.30 P. Jaworski: On copulas and their diagonals
9.30 - 9.50 S. Schlüter, M. Fischer: Weak tail dependence and the generalised hyperbolic distribution
9.50 - 10.10 F. Weigert: Modelling temporal dependence with copulas

Session B

- 8.30 - 8.50 J. Bukor, L. Mišík, J. Tóth: On continuity of asymptotic fuzzy measures with respect to a parameter
8.50 - 9.10 M. Hyčko: Properties of subinterval algebras
9.10 - 9.30 J. Lebedinska: On the inverse matrix of a fuzzy matrix
9.30 - 9.50 L.C. Ciungu: On perfect algebras of fuzzy logics
9.50 - 10.10 A. Perović, A. Jovanović: On strongly complete axiomatizations of certain fuzzy logics

Session C

- 8.30 - 8.50 V. Janiš: IF nearness
8.50 - 9.10 B. Van Gasse, Ch. Cornelis, G. Deschrijver, E.E. Kerre: Interval-Valued Residuated Lattices
9.10 - 9.30 M. Ďurica: Maličkový and Hudetz entropy on IF-dynamical systems
9.30 - 9.50 P. Král, G. Deschrijver: On the representation of cardinalities of interval-valued fuzzy sets
9.50 - 10.10 P. Mazureková: Ergodic Theorem on IF-Set

10.10. – 10.40 Coffee break

Session A

- 10.40 - 11.00 U. Dudziak, B. Pękala: Equivalent bi-fuzzy relations
11.00 - 11.20 R. Habaj, A. Król: Probability of a generalized bifuzzy sets
11.20 - 11.40 Y. Shi, B. Van Gasse, D. Ruan, E.E. Kerre: On the characterization of QL-implications satisfying the Smets-Magrez axioms
11.40 - 12.00 B. Jayaram, M. Baczyński: Algebra of (S,N)-implications

Session B

- 10.40 - 11.00 E. Lehrer, R. Teper: The concave integral for capacities
11.00 - 11.20 A. Boccuto: The Šipoš Integral with respect to Riesz Space-valued Capacities
11.20 - 11.40 J. Kawabe: The Alexandroff theorem in Riesz space-valued non-additive measure theory
11.40 - 12.00 D. Candeloro, A. Boccuto: Defining Limits by means of Integrals

Session C

- 10.40 - 11.00 L. Lašová: Probability on pseudo-MV-algebras
11.00 - 11.20 A. Michalíková: A subadditive measure extension theorem in ℓ -groups
11.20 - 11.40 M. Renčová: On the φ -probability and φ -observable
11.40 - 12.00 J. Špirková: Generalized weighted aggregation operators based on minimization

13.30 SOCIAL EVENT

19.30 CONCERT OF PARTICIPANTS

Thursday, February 7, 2008

8.30 - 9.25

Ch. Cornelis: Interval-Valued Fuzzy Set Theory: Results and Challenges

9.25 – 10.20

A. Dvurečenskij: States on Algebraic Structures

10.20 – 10.50 Coffee break

Session A

10.50 - 11.10 Z. Matusiewicz: Properties of fuzzy relation equations of type \max -* for some classes of triangular norm conjunctions

11.10 - 11.30 M. Petrík, P. Sarkoci: Reidemeister property and convex combinations of continuous nilpotent t-norms

11.30 - 11.50 E. Rak: Subdistributivity and superdistributivity of binary operations

11.50 - 12.10 G. Rossi: Aggregation of information functions

Session B

10.50 - 11.10 J. Paseka, Z. Riečanová: States on Archimedean atomic lattice effect algebras

11.10 - 11.30 S. Pulmannová: Sharp and unsharp observables on σ -MV algebras - a comparison with the Hilbert space approach

11.30 - 11.50 Z. Riečanová: Some families of effect algebras and existence of states

11.50 - 12.10 E. Vinceková, S. Pulmannová: MV-pairs and factorization

Session C

10.50 - 11.10 M. Pająk: Fuzzy conversion of power units' maintenance schedule to enable fuzzy assessment system implementation

11.10 - 11.30 M. Gavalec, K. Mls: On-line Fuzzy Optimization Based on Cognitive Hierarchy Process

11.30 - 11.50 S. Krajčí, J. Krajčiová: Application of one-sided fuzzy formal concept analysis to social networks

11.50 - 12.10 Ch. Cornelis, M.G. Hurtado: A New Approach to Fuzzy-Rough Data Analysis

16.20 – 16.40 Coffee break

Session A

16.40 - 17.00 D. Hliněná, M. Kalina, P. Král: Evaluation by Choquet integral

17.00 - 17.20 A. Kolesárová: On parametric evaluation of aggregation functions

Session B

16.40 - 17.00 P.A. Kowalski, P. Kulczycki: An Algorithm for Bayes Classification of Interval Information

17.00 - 17.20 I. Štajner-Papuga, T. Grbić: Limit theorem for interval-valued functions in the pseudo-analysis' framework

Session C

16.40 - 17.00 J. Haluška, O. Hutník: Some inequalities involving integral means

19.30 BANQUET

Friday, February 8, 2008

9.00 - 9.55

E. P. Klement: Different Types of Aggregation Operators and Their Interrelationship

9.55 - 10.50

M. Grabisch, P. Miranda: On the structure of the k -additive core

10.50 - 11.10 Coffee break

11.10 - 12.05

J. Liang, M. Navara: Technical Aspects of the Use of Steiner Point of Fuzzy Set

12.05 - 12.15 Closing ceremony

Note that in the case of interest, there is a space for discussions in the form of round tables or open problems session on Monday and on Tuesday since 20.00 (interested organizers should contact R. Mesiar in advance).