

Monday, January 25, 2016

9.00 Opening of the conference

Invited lecture

9.15 – 10.15 Dubois D., Prade H., Rico A.: *Qualitative capacities and variants of Sugeno integrals*

10.15 – 10.45 Coffee break

10.45 – 11.45 Contributed lectures I

Session A (devoted to the memory of Siegfried Gottwald)

10.45 – 11.05 Perfilieva I., Vajgl M., Sussner P.: *Autoregressive FRE and fuzzy associative memories*

11.05 – 11.25 Murinová P., Novák V.: *Generalized logical hexagon in fuzzy natural logic*

11.25 – 11.45 Petrik M., Sarkoci P.: *Constructive characterization of certain triangular subnorms*

Session B

10.45 – 11.05 Bohdalová M., Bohdal R.: *Forecasting of financial time series using fuzzy ARMA approach*

11.05 – 11.25 Holčapek M., Nguyen L.: *Suppression of periodicities in time series using fuzzy transform of higher degree*

11.25 – 11.45 Szőkeová D., Bohdalová M.: *Models for monthly water discharge time series with a Markov switching model*

Session C

10.45 – 11.05 Frič R., Papčo M.: *From classical to fuzzy probability I*

11.05 – 11.25 Frič R., Papčo M.: *From classical to fuzzy probability II*

11.25 – 11.45 Považan J.: *Ergodic theorem on A-posets*

12.00 Lunch

16.30 – 16.45 Coffee break

16.45 – 17.45 Contributed lectures II

Session A

16.45 – 17.05 Hodáková P., Perfilieva I., Valášek R.: *F-transform based numerical methods for solving boundary value problems*

17.05 – 17.25 Kokainis M., Asmuss S.: *Approximation properties of discrete higher degree F-transforms based on B-splines*

17.25 – 17.45 Schuster T., Sussner P., Perfilieva I.: *Combining a fuzzy impulse noise detector with the median and the fuzzy transform for image noise removal*

Session B

16.45 – 17.05 Stajner-Papuga I., Grujić G.: *On interval-valued estimations for fuzzy quantities based on monotone set functions*

17.05 – 17.25 Stupňanová A.: *Copula-based arithmetics of fuzzy numbers*

17.25 – 17.45 Helbin P., Baczyński M., Mesiar R.: *The fuzzy implications generated from copulas*

Session C

16.45 – 17.05 Jenča G., Jenčová A.: *Partial semigroups and semicategories*

17.05 – 17.25 Holčapek M.: *Quotient many identities groups: a general definition*

17.25 – 17.45 Paseka J., Chajda I.: *Tense operators on De Morgan posets*

18.00 Dinner

Tuesday, January 26, 2016

Invited lecture

9.00 – 10.00 Greco S.: *Multiple criteria hierarchy process with non-additive integrals*

10.00 – 10.30 Coffee break

10.30 – 11.50 Contributed lectures I

Session A

10.30 – 10.50 Dimuro G. P., Bedregal B., Bustince H., Fernandez J., De Miguel L.: *On fuzzy implications derived from overlap and grouping functions*

10.50 – 11.10 Drygaś P., Król A.: *Preservation of properties of fuzzy implications by ordinal sums*

11.10 – 11.30 Miś K., Baczyński M.: *QL-operators generated by aggregation functions*

11.30 – 11.50 Niemyska W., Baczyński M.: *On the distributivity equation $I(x, S(y, z)) = S(I(x, y), I(x, z))$ for R-implications obtained from strict t-norms*

Session B

10.30 – 10.50 Bohdalová M., Greguš M.: *PCC copula and its application in financial modelling*

10.50 – 11.10 Bacigál T.: *A note on univariate distribution and a copula it generates via Williamson's transform*

11.10 – 11.30 Dibala M., Vavříková L.: *Modeling uncertainty using imprecise copula concept*

11.30 – 11.50 Komorník J., Komorníková M., Kalická J.: *Concordance and dependence of perturbed copulas*

Session C

10.30 – 10.50 Kalina M., Král' P.: *Few notes on constructions of uninorms*

10.50 – 11.10 Çaylı G. D., Drygaś P.: *Construction of uninorms on bounded lattice and their properties*

11.10 – 11.30 Cornejo M. E., Medina J., Ramirez-Poussa E.: *Dual disjunction of an adjoint conjunctor*

11.30 – 11.50 Cornejo M. E., Medina J., Ramirez-Poussa E.: *On the influence of attribute reductions in the size of the reducts*

12.00 Lunch

16.30 – 16.45 Coffee break

16.45 – 17.45 Contributed lectures II

Session A

16.45 – 17.05 Běhounek L., Daňková M.: *First steps in fuzzy partial set theory*

17.05 – 17.25 Boroński J.P., Kupka J.: *Inverse limits in fuzzy dynamical systems*

17.25 – 17.45 Kouchakinezhad F., Mashinchi M., Mesiar R.: *On the theory of fuzzy bags*

Session B

16.45 – 17.05 Antoni E., Krajčí S., Křídlo O.: *Random variables in fuzzy formal concept analysis*

17.05 – 17.25 Antoni E., Krajčí S., Křídlo O.: *Characterization of fuzzy subsets by Galois connections*

17.25 – 17.45 Běts R., Šostak A.: *Fuzzy pseudometrics on the set of infinite words*

Session C

16.45 – 17.05 Denniston J. T., Melton A., Rodabaugh S. E., Solovjovs S.: *Relational approach to topological spaces and topological systems*

17.05 – 17.25 Latif R.M.: *Different types of fuzzy α -mappings in fuzzy topological spaces*

17.25 – 17.45 Latif R.M.: *Characterizations of fuzzy totally alpha-continuous and fuzzy slightly alpha-continuous functions*

18.00 Dinner

19.30 Open problems session - discussion

Wednesday, January 27, 2016

Invited lecture

9.00 – 10.00 Novák V.: *Fuzzy Natural Logic: theory and applications*

10.00 – 10.30 Coffee break

10.30 – 11.50 Contributed lectures

Session A

10.30 – 10.50 Kawabe J.: *A unified approach to limit theorems for nonlinear integrals*

10.50 – 11.10 Honda A., Okazaki Y.: *Inclusion-exclusion integral and its application for multi-variate analysis*

11.10 – 11.30 Boczek M.: *Some subadditivity theorems for generalized Sugeno integrals with an application*

11.30 – 11.50 Horanská Ľ., Šipošová A.: *A note on a generalization of the discrete Choquet integral*

Session B

10.30 – 10.50 Bohdalová M., Kalina M., Nánásiová O.: *QL-copulas, s-maps and conditioning on orthomodular lattices*

10.50 – 11.10 Dvurečenskij A., Hyčko M.: *Hyper effect algebras*

11.10 – 11.30 Pulmannová S., Vinceková E.: *Compatibility of observables on effect algebras*

11.30 – 11.50 Pulmannová S., Vinceková E.: *A remark on effect-tribes*

Session C

10.30 – 10.50 Walczak D., Rutkowska A.: *Projects' ranking for participatory budget based on fuzzy TOPSIS method*

10.50 – 11.10 Takács M., Zubán E.: *Fuzzy cognitive map developing using Frank operators*

11.10 – 11.30 Halaš R., Pócs J.: *Aggregation functions on lattices via clones*

11.30 – 11.50 Mesiar R., Kolesárová A., Bustince H., Fernandez J.: *Dualities of fusion functions*

12.00 Lunch

13.30 Social event

18.00 Dinner

19.30 Concert of FSTA 2016 participants

Thursday, January 28, 2016

Invited lecture

- 9.00 – 10.00 Grabisch M., Labreuche Ch.: *Generalized Additive Independence models and k-ary capacities*
- 10.00 – 10.30 Coffee break

10.30 – 11.50 Contributed lectures I

Session A

- 10.30 – 10.50 Snášel V., Platoš J., Přílepok M., Berek P.: *Similarity metric based on fuzzy sets*
- 10.50 – 11.10 Hudec M., Vučetić M.: *Conformance and aggregations for recommending suitable entities*
- 11.10 – 11.30 Madrid N.: *Machines must be wrong*
- 11.30 – 11.50 Rusnok P.: *Conditional rules firing as model tuning method*

Session B

- 10.30 – 10.50 Grabisch M., Mandel A., Rusinowska A., Tanimura E.: *Strategic influence in social networks*
- 10.50 – 11.10 Špirková J., Král P.: *Risk measures in non-life insurance*
- 11.10 – 11.30 Kaluszka M., Krzeszowiec M.: *On risk aversion under uncertainty*
- 11.30 – 11.50 Dutta B., Guha D., Mesiar R.: *Multi-attribute decision making under type-2 fuzzy sets*

Session C

- 10.30 – 10.50 Bustince H., Barrenechea E., Lafuente J., Mesiar R., Kolesárová A.: *Ordered directionally monotone functions*
- 10.50 – 11.10 Bustince H., Fernandez J., Mesiar R., Kolesárová A., Bedregal B., Dimuro G.: *The notion of pre-aggregation function*
- 11.10 – 11.30 Šipeky L., Šipošová A.: *Additional conditions for super and sub-additive transformations*
- 11.30 – 11.50 Takáč Z.: *Comparative study of OWA operators for fuzzy sets*

12.00 Lunch

16.15 – 16.30 Coffee break

16.30 – 17.50 Contributed lectures II

Session B

- 16.30 – 16.50 Halčinová L.: *The smallest semicopula-based universal integrals: Topology determined by the integral*
- 16.50 – 17.10 Manzi M.: *Integrals of set-valued functions and extreme events*
- 17.10 – 17.30 Riečan B.: *Some contributions to measure theory on IF-sets*
- 17.30 – 17.50 Smrek P.: *A note on level dependent capacities-based integrals*

Session C

- 16.30 – 16.50 Bentkowska U.: *Properties of interval-valued fuzzy relations and aggregation process*
- 16.50 – 17.10 Bentkowska U, Król A.: *Aggregation of fuzzy orders*
- 17.10 – 17.30 Pečala B.: *A note on properties of interval-valued fuzzy relations and the interval order*
- 17.30 – 17.50 Bustince H., Fernandez J., Minářová M.: *Modified gravitational search algorithm*

19.00 Banquet

Friday, January 29, 2016

Invited lecture I

9.15 – 10.15 Jaworski P.: *On heavy tails of copulas*

10.15 – 10.40 Coffee break

Invited lecture II

10.40 – 11.40 Montero J., Garmendia L., Gómez D., González Del Campo R., Rodríguez J.T.: *Some key issues in aggregation*

11.40 – 11.50 Closing of the conference

12.00 Lunch

13.00 Departure of FSTA 2016 participants