

Monday, January 29, 2018

8.55 Opening of the conference

Invited lecture

9.10 – 10.10 Holčapek M., Dvořák A.: *Fuzzy quantifiers: from Zadeh's fuzzy quantification to theory of fuzzy quantifiers*

10.10 – 10.35 Coffee break

10.35 – 11.55 Contributed lectures I

Session A

10.35 – 10.55 Couceiro M., Grabisch M.: *On integer-valued means and the symmetric maximum*

10.55 – 11.15 Stupňanová A.: *Symmetrization of aggregation functions*

11.15 – 11.35 Marco-Detchart C., Fernandez J., Barranechea E., Mesiar R., Bustince H.: *Ordered directionally monotone functions and the problem of edge detection*

11.35 – 11.55 Rak E., Bentkowska U.: *Solutions of the distributivity and modularity equations for some classes of aggregation functions*

Session B

10.35 – 10.55 Štepnička M., Cao N.: *Fuzzy relational compositions as appropriate tools for encoding expert knowledge (and using it for classification)*

10.55 – 11.15 Baczyński M., Mis K., Niemyska W.: *Characterizations of some reasoning schemas through fuzzy connectives*

11.15 – 11.35 Guada C., Gomez D., Rodriguez J.T., Yañez J., Montero J.: *Fuzzy image segmentation concept and its visualization*

11.35 – 11.55 Pukitis M.: *Supervised classification of remotely sensed images: comparison of crisp and fuzzy techniques*

12.00 Lunch

15.55 – 16.35 Contributed lectures II

Session A

15.55 – 16.15 Halaš R., Mesiar R., Pócs J.: *Composition based generation of aggregation functions on real interval*

16.15 – 16.35 Halaš R., Kurač Z., Pócs J.: *On minimality of generating sets of aggregation clones*

Session B

15.55 – 16.15 Hudec M.: *Quantified fuzzy queries merged by asymmetric disjunction*

16.15 – 16.35 Murinová P.: *Properties of graded hexagon with intermediate quantifiers*

16.35 – 16.55 Coffee break

16.55 – 17.55 Contributed lectures III

Session A

16.55 – 17.15 Vagaská A., Stupňanová A.: *A note on moderate deviation function*

17.15 – 17.35 Sesma-Sara M., Lafuente J., Fernandez J., Mesiar R., Bustince H.: *From weakly monotone to strengthened ordered directionally monotone functions*

17.35 – 17.55 Mesiar R., Kolesárová A.: *On k-order pseudo-additive aggregation functions*

Session B

16.55 – 17.15 Borkotokey S., Hazarika P., Mesiar R.: *Fuzzy cooperative games with multiple attributes*

17.15 – 17.35 Todorov M., Štrboja M., Pao E., Mihailović B.: *On the Jensen type inequality for the bipolar pseudo-integrals*

17.35 – 17.55 Michalíková A., Riečan B.: *On states on fuzzy sets*

18.00 Dinner

Tuesday, January 30, 2018

Invited lectures

- 8.30 – 9.30 Pasi G.: *A model driven approach to predictive tasks based on aggregation operators*
9.30 – 10.30 Dimuro G., Bustince H.: *Pre-aggregation functions and their role in fuzzy-rule based classification systems*

10.30 – 10.55 Coffee break

10.55 – 11.55 Contributed lectures I

Session A

- 10.55 – 11.15 Grabisch M., Rusinowska A., Venel X.: *Modelling contagion by aggregation functions*
11.15 – 11.35 Bentkowska U., Pełkala B.: *Local properties of fuzzy relations in aggregation process*
11.35 – 11.55 Špirková J., Hudec S.: *Smoothing of mortality rates using mixture functions*

Session B

- 10.55 – 11.15 Hovana A., Hutník O.: *On integral inequalities for the smallest semicopula-based universal integral*
11.15 – 11.35 Hutník O., Pócs J.: *On *-associated comonotone functions*
11.35 – 11.55 Borzová J., Halčinová L.: *Non-additive integrals and sizes (on discrete spaces)*

12.00 Lunch

15.15 – 16.15 TUTORIAL

Cibira G.: *Optimization of fuzzy-logic control system: Data transfer case study*

16.15 – 16.35 Coffee break

16.35 – 17.55 Contributed lectures II

Session A

- 16.35 – 16.55 Helbin P., Baczyński M.: *Fuzzy implications generated by using the Sklar's Theorem*
16.55 – 17.15 Baczyński M., Mis K., Niemyska W.: *On fuzzy implications satisfying generalized hypothetical syllogism*
17.15 – 17.35 Król A.: *Overview of ordinal sums of fuzzy implications*
17.35 – 17.55 Navara M.: *Generators of triangular norms and fuzzy implications*

Session B

- 16.35 – 16.55 Šostak A., Han S.-E.: *On many-valued measures of roughness for approximation of L-fuzzy sets*
16.55 – 17.15 Král' P., Janiš V., Montes S.: *Uncertainty-aware similarity measures for interval-valued fuzzy sets*
17.15 – 17.35 Paternain D., Ochoa G., Lizasoain I., Bustince H., Mesiar R.: *Interval aggregation using different admissible orders*
17.35 – 17.55 Takashi M.: *Complication of center of gravity method for periodic membership function*

18.00 Dinner

19.30 Open problems session – discussion

Wednesday, January 31, 2018

8.30 – 10.10 Contributed lectures I

Session A

- 8.30 – 8.50 Paseka J., Zhang X.: *On injective constructions of S -semigroups*
8.50 – 9.10 Jenča G.: *Tensor product of effect algebras as a Kan extension*
9.10 – 9.30 Hyčko M.: *Hyper pseudo effect algebras*
9.30 – 9.50 Foulis D. J., Jenčová A., Pulmannová S.: *Vector lattices in mathematical models of quantum mechanics*
9.50 – 10.10 Jenei S.: *Strong standard completeness of IUL plus $t \Leftrightarrow f$*

Session B

- 8.30 – 8.50 Drygaś P., Su Y.: *Properties of some class of uninorms*
8.50 – 9.10 Hliněná D., Kalina M., Král' P.: *On orders and pre-orders generated from uninorms defined on $[0; 1]^2$*
9.10 – 9.30 Aşici E.: *A survey on an order induced by nullnorms on bounded lattices*
9.30 – 9.50 Jočić D., Štajner-Papuga I., Spahić N.: *A note on distributivity for S -uninorms*
9.50 – 10.10 Çaylı G. D.: *Characterization of triangular norms and triangular conorms on lattices*

10.10 – 10.35 Coffee break

10.35 – 11.55 Contributed lectures II

Session A

- 10.35 – 10.55 Saminger-Platz S.: *On the defects of quasi-copulas*
10.55 – 11.15 Sempi C.: *A martingale for quasi-copulas*
11.15 – 11.35 Komorník J., Komorníková M., Kalická J.: *Generalization of the FGM family of copulas*
11.35 – 11.55 Bacigál T.: *Meditation on statistical properties of the Archimedean copulas stochastic interpretation*

Session B

- 10.35 – 10.55 Frič R., Papčo M.: *Fuzzy stochastic channel and asymmetrical stochastic independence I*
10.55 – 11.15 Frič R., Papčo M.: *Fuzzy stochastic channel and asymmetrical stochastic independence II*
11.15 – 11.35 Cánovas J., Kupka J.: *On topological entropy of fuzzy dynamical systems*
11.35 – 11.55 Takáč Z., Minárová M., De Miguel L., Fernandez J., Bustince H.: *Interval-valued entropies and p -entropies*

12.00 Lunch

13.30 Social event

18.00 Dinner

19.30 Concert of FSTA 2016 participants

Thursday, February 1, 2018

Invited lecture

8.30 – 9.30 Omladič M.: *The path to copulas is paved (also) with shock models*

9.30 – 9.55 Coffee break

9.55 – 11.55 Invited session on dependence concepts

Session A

9.55 – 10.15 Jaworski P.: *Extreme value copulas and Genest problem*

10.15 – 10.35 Košir T.: *Inverse maxmin copulas and modelling quadrant subindependence*

10.35 – 10.55 Kokol Bukovšek D.: *Asymmetry of copulas arising from shock models*

10.55 – 11.15 Mojšker B.: *Multivariate copulas arising from shock models*

11.15 – 11.35 Škulj D., Omladič M.: *Constructing copulas from shock models with imprecise distributions*

11.35 – 11.55 Sloot H.: *Exogenous shock models - characterization and hierarchical construction*

9.55 – 11.55 Contributed lectures I

Session B

9.55 – 10.15 Takaci A., Marič M., Radojičić N., Došenović T.: *Application of fuzzy logic in modelling of the max-min diversity problem*

10.15 – 10.35 Takács M.: *Fuzzy clustering method for cognitive map construction*

10.35 – 10.55 Kupka J., Rusnok P.: *Fuzzy partitions in data mining*

10.55 – 11.15 Lama R., Asmuss S.: *On minimization problems with fuzzy relation inequality constraints*

11.15 – 11.35 Kokainis M., Asmuss S.: *F-transforms based on B-splines: Advantages and possible applications*

11.35 – 11.55 Nguyen L., Holčapek M.: *Bivariate fuzzy transform based on tensor product of two polynomial spaces*

12.00 Lunch

15.55 – 16.35 Invited session on dependence concepts

Session A

15.55 – 16.15 de Amo Artero E., Fernández Sánchez J., Úbeda Flores M.: *Best-possible bounds on the set of copulas with a given value of Gini's gamma*

16.15 – 16.35 Spizzichino F.: *Probabilistic meaning and inequalities for copula-based extensions of fuzzy measures*

15.55 – 16.35 Contributed lectures II

Session B

15.55 – 16.15 Antoni E., Krajči S., Krídlo O.: *Squared symmetric formal contexts and their properties*

16.15 – 16.35 Pócs J., Pócs J.: *Bonds between generalized one-sided contexts*

16.35 – 16.55 Coffee break

16.55 – 17.55 Contributed lectures III

Session A

16.55 – 17.15 Bohdalová M., Greguš M.: *Bitcoin, gold and uncertainty*

17.15 – 17.35 Popović V. B., Ristić M. M.: *On dependence properties of the new multivariate distribution family*

17.35 – 17.55 Dibala M., Vavříková L., Genest Ch.: *On the size of the class of exchangeable bivariate extreme-value copulas with a given level of dependence*

Session B

16.55 – 17.15 Horanská E., Takáč Z.: *Characterization of k -Choquet integrals*

17.15 – 17.35 Smrek P.: *On the decomposition approach to the Sugeno integral*

17.35 – 17.55 Šeliga A.: *Some notes on the decomposition integrals*

19.00 Banquet

Friday, February 2, 2018

Invited lecture I

9.15 – 10.15 Montes S.: *Divergence measures as a tool for comparing sets*

10.15 – 10.40 Coffee break

Invited lecture II

10.40 – 11.40 Gagolewski M.: *Stochastic properties of and agent-based models for the Hirsch index and other discrete Sugeno integrals*

11.40 – 11.50 Closing of the conference

12.00 Lunch

13.00 Departure of FSTA 2018 participants