Monday, January 27, 2014

8.45   Opening of the conference

Invited lecture

9.00 – 9.50   Viertl R.: Fuzzy models and stochastics

9.50 – 10.20 Coffee break

10.20 – 12.00   Contributed lectures I

Session A

10.20 – 10.40   Bustince H., Fernandez J., Kolesárová A., Mesiar R.: Fusion functions and their directional monotonicity
10.40 – 11.00   Jočić D., Štajner-Papuga I.: On restricted distributivity of aggregation operators and utility functions
11.00 – 11.20   Drygaś P., Rak E.: Distributivity equation in the class of semi t-operators
11.20 – 11.40   Vemuri N.R., Anamandra S.H., Seshadri S.: Set difference and symmetric difference of fuzzy sets
11.40 – 12.00   Špirková J.: Annuity valuation by copulas

Session B

10.20 – 10.40   Dvurečenskij A.: On kite pseudo BL-algebras
10.40 – 11.00   Hyčko M.: Generalized weak pre-pseudo effect algebras
11.00 – 11.20   Jenča G.: D-posets and the Kalmbach monad
11.20 – 11.40   Riečanová Z.: Operator effect algebras
11.40 – 12.00   Jenčová A., Pulmannová S.: Effect algebras with a state operator

Session C

10.20 – 10.40   Boroński J.P., Kupka J.: Inverse limits in fuzzy dynamical systems
10.40 – 11.00   Holčapek M., Perfilieva I., Novák V.: Generalized uniform fuzzy partition: Analysis of necessary and sufficient condition
11.00 – 11.20   Štěpnička M., Holčapek M.: Fuzzy relational compositions based on generalized quantifiers
11.20 – 11.40   Bentkowska U., Król A.: Aggregation procedure and fuzzy relation properties based on binary operations
11.40 – 12.00   Cánovas J., Kupka J.: On fuzzy entropy and topological entropy of fuzzy extensions of dynamical systems

12.00 – 13.00   Lunch

16.00 – 16.20   Coffee break

16.20 – 17.20   Contributed lectures II

Session A

16.20 – 16.40   Gottwald S.: Local finiteness in t-norm-bimonoids
16.40 – 17.00   Jenei S.: Five new constructions of involutive FLe-algebras
17.00 – 17.20   Petrík M.: Web-geometric view on positively cancellative triangular subnorms

Session B

16.20 – 16.40   Hoďáková P., Perfilieva I.: Fuzzy transform of a higher degree and partial derivatives
16.40 – 17.00   Asmuss S., Kodorane I.: On F-transforms with fuzzy partitions based on higher degree splines
17.00 – 17.20   Hurtik P., Madrid N.: Fuzzy image applied into Hough transform to detect lines

Session C

16.20 – 16.40   Budimirović B., Budimirović V., Šešelja B., Tepavčević A.: Fuzzy subgroups of a groupoid
16.40 – 17.00   Janiš V., Kobza V.: Hesitant metrics
17.00 – 17.20   Abdullah S.: On bipolar fuzzy soft relation and applications in decision making problems

17.30 – 18.30   Dinner

19.30 – 21.00   Round table: Quantum structures

Tuesday, January 28, 2014

Invited lecture

8.50 – 9.40   Mesiarová-Zemánková, A.: Advances in multi-polar aggregation

9.40 – 10.10   Coffee break

10.10 – 11.50   Contributed lectures I

Session A

10.10 – 10.30   Bacigál T., Mesiar R., Najjari V.: Some new construction methods of additive generators of copulas
10.30 – 10.50   De Santis E., Fantozzi F., Spizzichino F.: Copulas, stochastic precedence, and stochastic ordering for capacities
10.50 – 11.10   Mesiar R., Kalická J., Šipeky L.: Diagonal copulas and quasi-copulas
11.10 – 11.30   Mesiar R., Komorníková M.: Construction methods for bivariate copulas

Session B

10.10 – 10.30   Čimoka D., Šostak A.: On L-fuzzy syntopogenous structures
10.30 – 10.50   Elkins A., Šostak A.: On the category of L-rough sets with variable range
10.50 – 11.10   Krupka M.: A topology on residuated lattices
11.10 – 11.30   Solovjovs S., Stehlík M.: On the category of lattice-valued bornological spaces
11.30 – 11.50   Šostak A., Uļjane I.: L-valued fuzzy bornological structures

Session C

10.10 – 10.30   Gréč M., Horáček M., Samec P., Vojvodík D., Burda M.: Creating RGB maps of soil damage using fuzzy clustering
10.30 – 10.50   Hudec M.: Linguistic summaries on relational databases
10.50 – 11.10   Levashenko V.: Fuzzy Decision Trees
11.10 – 11.30   Mandal S., Jayaram B.: Suitability of FRIs based on Generalised Operators

12.00 – 13.00   Lunch

16.00 – 16.20   Coffee break

16.20 – 17.20   Contributed lectures II

Session A

16.20 – 16.40   Vetterlein T.: On the axiomatisation of logics for approximate reasoning
16.40 – 17.00   el-Zekey M.: Balanced implications
17.00 – 17.20   Mattioli G.: Why fuzzy?

Session B

16.20 – 16.40   Dombi J., Csiszár O.: The general nilpotent operator system
16.40 – 17.00   Dyba M., Novák V.: First-order EQ-logic with equality
17.00 – 17.20   Murinová P., Novák V.: Semantic interpretation of intermediate quantifiers and their syllogisms

Session C

16.20 – 16.40   Michalíková A.: On extensions of the weight-center operator defined over intuitionistic fuzzy sets
16.40 – 17.00   Považan J.: Representation theorem of general states on IF-sets
17.00 – 17.20   Skřivánek V.: States on IF events

17.30 – 18.30   Dinner

19.30 – 21.00   Open problems session

Wednesday, January 29, 2014

Invited lecture

8.50 – 9.40   Greco S., Mesiar R., Rindone F.: The superadditive integral

9.40 – 10.10   Coffee break

10.10 – 11.50   Contributed lectures

Session A

10.10 – 10.30   Karaçal F., Mesiar R., Çayli Gül D.: Notes on uninorms on bounded lattices
10.30 – 10.50   Orlovs P., Asmuss S.: Generalized factoraggregation based on fuzzy equivalence relation
10.50 – 11.10   Paternain D., Bustince H., Fernandez J., Mesiar R., Kolesárová A.: A class of internal aggregation functions for image reduction
11.10 – 11.30   Pękala B.: Properties of interval-valued fuzzy relations and aggregation process
11.30 – 11.50   Rak E., Drygaś P.: Distributivity equation in the class of 2-uninorms

Session B

10.10 – 10.30   Paseka J.: Representation of functions between semisimple MV-algebras
10.30 – 10.50   Pulmannová S.: Representations of MV-algebras by Hilbert-space effects
10.50 – 11.10   Vinceková E., Pulmannová S.: MV-pairs and state operators
11.10 – 11.30   Navara M.: The role of symmetric difference in quantum structures
11.30 – 11.50   Bohdalová M., Kalina M., Nánásiová O.: Stochastic causality and orthomodular lattices

Session C

10.10 – 10.30   Antoni L., Krajči S., Krídlo O.: Fuzzy concept-forming operators on heterogeneous structures
10.30 – 10.50   Monim H., Šešelja B., Tepavčević A.: Structural analysis of semilattices and lattices by fuzzy sets
10.50 – 11.10   Kesicioğlu Y., Akbaş M.: On suborbital graphs for a special congruence subgroup
11.10 – 11.30   Frič R., Papčo M.: Cogenerators in generalized probability
11.30 – 11.50   Mišík L., Tóth J.T.: On a class of cardinal densities

12.00 – 13.00   Lunch

13.30 – 17.30   Social event

17.30 – 18.30   Dinner

19.00 –   Concert of FSTA participants and their guests

Thursday, January 30, 2014

Invited lecture

8.50 – 9.40   Jayaram B.: Data analysis: a 3-D perspective

9.40 – 10.10   Coffee break

10.10 – 11.50   Contributed lectures I

Session A

10.10 – 10.30   Helbin P., Baczyński M.: On the exchange principle for fuzzy implications
10.30 – 10.50   Niemyska W., Baczyński M., Grzegorzewski P.: Laws of contraposition and law
                 of importation for probabilistic implications and probabilistic S-implications
10.50 – 11.10   Vemuri N.R., Jayaram B.: Conjugacy relation via group action on the set of fuzzy implications
11.10 – 11.30   Kesicioğlu M.N., Mesiar R.: The order generated by implications
11.30 – 11.50   Hliněná D., Kalina M., Kráľ P.: Preorder induced by uninorms

Session B

10.10 – 10.30   Mesiar R., Stupňanová A., Klement E.P., Spizzichino F.: Integrals based on copulas
10.30 – 10.50   Smrek P.: Level dependent capacities-based Sugeno integrals
10.50 – 11.10   Halčinová L.: On probabilistic-valued decomposable measures and integrals
11.10 – 11.30   Molnárová J.: Convergence theorems for (semi)copula-based universal integrals
11.30 – 11.50   Riečan B.: On invariant measures on fuzzy sets

Session C

10.10 – 10.30   Takači A., Marić M., Drakulić D.: The use of fuzzy logic in location problems
10.30 – 10.50   Vajgl M.: Approaches used to measure quality of multifocus image fusion
10.50 – 11.10   Zaitseva E.: Multiple-Valued Logic in reliability analysis of Multi-State System
11.10 – 11.30   Burda M.: Using bit operations for fast evaluation of t-norms
11.30 – 11.50   Naeem M., Abdullah S.: Construction of cubic soft sets: A new mathematical modelling
                 of uncertainty

12.00 – 13.00   Lunch

16.30 – 16.40   Coffee break

16.40 – 17.20   Contributed lectures II

Session A

16.40 – 17.00   Faigle U., Grabisch M.: Linear transforms, bases and quadratic optimality criteria for games

Session B

16.40 – 17.00   Bartková R.: Extreme value theorems on a non-additive probability space
17.00 – 17.20   Manzi M.: Extreme value analysis based on diagonal copulas

18.30 – 24.00   Banquet

Friday, January 31, 2014

Invited lecture I

9.00 – 9.50   Bustince H.: Penalty-functions and interval valued fuzzy sets in multi-expert decision making problems

9.50 – 10.10   Coffee break

Invited lectures II

10.10 – 11.00   Rusinowska A., Foerster M., Grabisch M.: Aggregation functions in social networks: Application to influence and contagion

11.00 – 11.50   Saminger-Platz S.: Triangle functions - constructions and functional (in)equalities

11.50 – 12.00   Closing of the conference

12.00 – 13.00   Lunch

13.00 –   Departure of FSTA 2014 participants