

LINZ
2008

29th Linz Seminar on Fuzzy Set Theory

**Foundations of Lattice-Valued Mathematics
with Applications to Algebra and Topology**

Bildungszentrum St. Magdalena, Linz, Austria
February 12 - 16, 2008

Program

Tuesday, February 12, 2008

- 09:00–09:15 am *Opening*
- 09:15–10:00 am U. HÖHLE, T. KUBIAK: *Topologies on quantale sets and topological representations of spectra of C^* -algebras*
- 10:00–10:45 am J. GUTIÉRREZ GARCÍA, T. KUBIAK, J. PICADO: *Localic real-valued functions: a general setting*
10:45 am Coffee break
- 11:15–12:00 pm J. HARDING, C. WALKER, E. WALKER: *On some topological properties of the subalgebra of normal convex functions of the algebra of truth values of type-2 fuzzy sets*
- 12:00–12:45 pm S.E. RODABAUGH: *Functorial generation of non-stratified, anti-stratified, and normalized spaces*
12:45 pm Lunch
- 02:30–03:30 pm N.N. MORSI: *Categories of fuzzy topological spaces with localization at points*
03:30 pm Coffee break
- 04:00–04:30 pm M. DEMIRCI: *Pointed semi-quantales and generalized lattice-valued quasi topological spaces*
- 04:30–05:00 pm S. SOLOVJOVS: *From quantale algebroids to topological spaces*
- 05:00–05:30 pm P. KUKKURAINEN: *Semilinear space and a compact T_1 -space $Spec A$*
- 05:30–06:00 pm P. EKLUND, J. KORTELAINEN: *What is fuzzification about?*

Wednesday, February 13, 2008

- 09:00–09:30 am J. FANG, Y. YUE: *L -fuzzy closure systems*
- 09:30–10:00 am J. GUTIÉRREZ GARCÍA, I. MARDONES-PÉREZ, J. PICADO, M.A. DE PRADA VICENTE: *Uniform-type structures on lattice-valued spaces and frames*
- 10:00–10:30 am U. HÖHLE, T. KUBIAK: *Lower separation axioms for many valued topological spaces*
10:30 am Coffee break
- 11:00–12:00 pm M. GEHRKE: *Topological duality methods for lattice ordered algebras*
- 12:00–12:30 pm L. BÉHOUNEK, T. KROUPA: *Continuous relations over topological spaces in Fuzzy Class Theory*
12:30 pm Lunch
- 02:30–03:30 pm ROUND TABLE: *Topology*
03:30 pm Coffee break
- 04:00–04:30 pm J. JÄRVINEN, M. KONDO, J. MATTILA: *Many-valued logic for modifiers of fuzzy sets*
- 04:30–05:00 pm M. ĆIRIĆ, J. IGNJATOVIĆ: *Algebraic theory of lattice-valued fuzzy languages and automata*
- 05:00–05:30 pm P. TOTO, M.E. MAIETTI, G. SAMBIN: *Towards the development of The Basic Picture on sets evaluated over an overlap algebra*

Thursday, February 14, 2008

- 09:00–10:00 am S.J. VICKERS: *Fuzzy sets and geometric logic*
- 10:00–10:30 am D. IOURINSKI: *A Dempster-Shafer theory inspired logic*
10:30 am: Coffee break
- 11:00–11:30 am V. NOVÁK: *Revised axioms of EQ-algebras*
- 11:30–12:00 pm I. PERFILIEVA: *Semilinear spaces, systems of linear-like equations, fixed points of contraction and dilatation operators*
12:00 pm: Lunch
- 01:30 pm Beginning of the Social Program: Excursion to Bad Ischl and Traunkirchen

Friday, February 15, 2008

- 09:00–10:00 am R.P. GYLYS: *Conditional probabilities on MV-algebras*
- 10:00–10:30 am C. WALKER, E. WALKER: *Automorphisms of subalgebras of the algebra of truth values of type-2 fuzzy sets*
10:30 am: Coffee break
- 11:00–11:45 am L. BĚHOUNEK, U. BODENHOFER, P. CINTULA, S. SAMINGER-PLATZ: *Graded dominance*
- 11:45–12:30 pm S. SAMINGER-PLATZ, E.P. KLEMENT, R. MESIAR: *Bounded lattices, complete sublattices, and extensions of t-norms*
12:30 pm: Lunch
- 02:30–03:30 pm D. ZHANG: *Implication structures, fuzzy subsets, and enriched categories*
03:30 pm: Coffee break
- 04:00–04:30 pm L.N. STOUT: *When does a category built on a lattice with a monoidal structure have a monoidal structure?*
- 04:30–05:00 pm C. GUIDO: *Lattice-valued categories*
- 05:00–06:00 pm ROUND TABLE: *Algebra, Categories, Logic, Order*

Saturday, February 16, 2008

- 09:00–09:30 am A. MELTON: *Correspondences*
- 09:30–10:00 am E. ORŁOWSKA, I. REWITZKY: *Discrete duality and its application to bounded lattices with operators*
- 10:00–10:30 am R. HORČÍK: *Interval analysis done in Fuzzy Class Theory*
10:30 am: Coffee break
- 11:00–11:30 am S. WEBER: *A complete characterization of all weakly additive measures and of all valuations on the canonical extension of any finite chain equipped with its unique MV-algebra structure*
- 11:30–12:30 pm ROUND TABLE: *Ordered and general structures*
- 12:30–12:45 pm Closing
12:45 pm: Lunch