

LINZ 2009

30th Linz Seminar on Fuzzy Set Theory

The Legacy of 30 Seminars – Where Do We Stand and Where Do We Go?

Bildungszentrum St. Magdalena, Linz, Austria
February 3 - 7, 2009

Program

Tuesday, February 3, 2009

- 09:00–09:15 am *Opening*
- 09:15–10:30 am D. MUNDICI: *Probability in many-valued logics*
- 10:30–11:00 am *Coffee break*
- 11:00–11:30 am C.G. FERMÜLLER: *Dialogue games and the proof theory of fuzzy logics – a review and outlook*
- 11:30–12:00 pm P. HÁJEK: *An observation on (un)decidable theories in fuzzy logic*
- 12:00–12:30 pm V. NOVÁK: *Fuzzy logic in broader sense: its current state and future*
- 12:30–02:00 pm *Lunch*
- 02:00–03:00 pm D. DUBOIS, H. PRADE: *Fuzziness, uncertainty and bipolarity: a critical review*
- 03:00–03:30 pm A. AVRON, B. KONIKOWSKA: *Non-deterministic fuzzy semantics*
- 03:30–04:00 pm D. SÁNCHEZ, M. DELGADO, M.A. VILA: *A discussion about representation models for imprecise quantities and probabilities*
- 04:00–04:30 pm *Coffee break*
- 04:30–05:00 pm C. SOSSAI: *On the link between chance and truth*
- 05:00–06:30 pm ROUND TABLE: *Many-valued logic and mathematical fuzzy logics*

Wednesday, February 4, 2009

- 09:00–10:00 am D. WESTERSTÅHL: *Generalized quantifiers in logic and language*
- 10:00–10:30 am E. PAP, R. MESIAR, M. GRABISCH, J.-L. MARICHAL: *Infinitary aggregation*
- 10:30–11:00 am *Coffee break*
- 11:00–11:30 am R. MESIAR, E. PAP, M. GRABISCH, J.-L. MARICHAL: *Contribution on some construction methods for aggregation functions*
- 11:30–12:00 pm J.-L. MARICHAL, M. GRABISCH, R. MESIAR, E. PAP: *Behavioral analysis of aggregation functions*
- 12:00–12:30 pm M. GRABISCH, J.-L. MARICHAL, R. MESIAR, E. PAP: *Aggregation on bipolar scales*
- 12:30–02:00 pm *Lunch*
- 02:00–03:00 pm E. HÜLLERMEIER: *Fuzzy logic in machine learning*
- 03:00–03:30 pm G. ROSSI: *Additive and non-additive discrete aggregation of preferences*
- 03:30–04:00 pm A. KOLESÁROVÁ, R. MESIAR: *Lipschitzian De Morgan triplets with strong negations*
- 04:00–04:30 pm *Coffee break*
- 04:30–05:00 pm M. COUCEIRO, J.-L. MARICHAL: *Characterizations of discrete Sugeno integrals as lattice polynomial functions*
- 05:00–06:30 pm ROUND TABLE: *Non-classical measures and integrals*

Thursday, February 5, 2009

- 09:00–10:00 am P. CINTULA: *Fuzzy Class Theory: a state of the art*
- 10:00–10:30 am T. VETTERLEIN: *The partial-algebra method for the representation of algebras related to fuzzy logics*
- 10:30–11:00 am Coffee break
- 11:00–11:30 am I. PERFILIEVA: *Towards a theory of a fuzzy rule base interpolation*
- 11:30–12:00 pm J. HARDING, C. WALKER, E. WALKER: *The variety generated by the truth value algebra of type-2 fuzzy sets*
- 12:00–12:30 pm P. EKLUND, J. KORTELAINEN, L.N. STOUT: *Introducing fuzziness in monads: cases of the powerobject monad and the term monad*
- 12:30–02:00 pm Lunch
- 02:00–06:30 pm Visit of Ars Electronica Center, Lentos "Best of Austria"
- 07:00– ??? pm Seminar Dinner (Bildungszentrum St. Magdalena)

Friday, February 6, 2009

- 09:00–10:00 am J. FODOR: *Fuzzy relations and preference modelling*
- 10:00–10:30 am S. JENEI: *An overview on the algebraic aspects of residuated monoids on $[0,1]$ with outlooks*
- 10:30–11:00 am Coffee break
- 11:00–11:30 am F. ESTEVA, L. GODO, C. NOGUERA: *On generalized continuous and left-continuous t -norms over chains: a survey*
- 11:30–12:00 pm S. YILMAZ, B. DE BAETS: *Constructing t -norms from a given behaviour on join-irreducible elements*
- 12:00–12:30 pm YUN SHI, B. VAN GASSE, DA RUAN, E.E. KERRE: *Axioms for fuzzy implications: dependence and independence*
- 12:30–02:00 pm Lunch
- 02:00–02:30 pm M. NAVARA, M. PETRÍK, P. SARKOCI: *Convex combinations of triangular norms*
- 02:30–03:00 pm M. NAVARA: *Tribes revisited*
- 03:00–04:00 pm S. WEBER: *Measure-free conditioning and extensions of additive measures on finite MV-algebras*
- 04:00–04:30 pm Coffee break
- 04:30–05:00 pm J.T. DENNISTON, A. MELTON, S.E. RODABAUGH: *Lattice-valued topological systems*
- 05:00–05:30 pm T. KUBIAK, A. ŠOSTAK: *Foundations of the theory of (L,M) -fuzzy topological spaces*
- 05:30–06:00 pm C. GUIDO: *Attachment between fuzzy points and fuzzy sets*

Saturday, February 7, 2009

- 09:00–09:30 am S. SOLOVJOVS: *Embedding topology into algebra*
- 09:30–10:00 am M. DEMIRCI: *Subset systems in lattice-valued mathematics*
- 10:00–10:30 am M. STEHLÍK: *Aggregation in topological spaces*
- 10:30–11:00 am Coffee break
- 11:00–12:30 am ROUND TABLE: *State of the art – open problems in many-valued mathematics related to logic, topology and algebra*
- 12:30–12:45 pm Closing
- 12:45–02:00 pm Lunch