

**LINZ**  
**2004**

25th Linz Seminar on Fuzzy Set Theory  
**Mathematics of Fuzzy Systems**  
Bildungszentrum St. Magdalena, Linz, Austria  
February 3 - 7, 2004

## PROGRAM

### Tuesday, February 3, 2004

- 09:00–10:00 am G. LITVINOV: *Dequantization of mathematics, idempotent semirings and fuzzy sets*
- 10:00–10:30 am D. DUBOIS, H. PRADE, P. SMETS: *A definition of subjective possibility*  
10:30 am Coffee Break
- 11:00–11:30 am J.-L. MARICHAL: *k-intolerant capacities and Choquet integrals*
- 11:30–12:00 am P. MEYER, M. ROUBENS: *Ordinal sorting in the presence of interacting points of view: TOMASO*
- 12:00–12:30 pm R. A. MARQUES PEREIRA, S. BORTOT: *Choquet measures, Shapley values, and inconsistent pairwise comparison matrices: an extension of Saaty's A.H.P.*  
12:30 pm Lunch
- 02:30–03:30 pm P. HAJEK: *Fuzzy predicate logic – a survey*
- 03:30–04:00 pm S. GOTTWALD: *Fuzzy relation equations and fuzzy control – some old and some new ideas*  
04:00 pm Coffee Break
- 04:30–05:00 pm I. PERFILIEVA: *Solvability and approximate solvability of a system of fuzzy relation equations from functional point of view*
- 05:00–05:30 pm V. NOVAK: *The logic and algebra of fuzzy if-then rules*
- 05:30–06:00 pm P. VOJTAS: *Fuzzy deductive and inductive systems with similarity based unification*

### Wednesday, February 4, 2004

- 09:00–10:00 am E. P. KLEMENT, R. MESIAR, E. PAP: *Triangular norms as special semigroups*
- 10:00–10:30 am B. DE BAETS, H. DE MEYER: *Stable commutative copulas in pairwise comparison models*  
10:30 am Coffee Break
- 11:00–11:30 am K. MAES, B. DE BAETS: *De Morgan triplets in the theory of fuzzified normal forms*
- 11:30–12:00 am A. KOLESAROVA: *A characterization and composition of quasi-copulas*
- 12:00–12:30 pm D. DUBOIS, H. PRADE: *On different ways of ordering conjoint evaluations*  
12:30 pm Lunch
- 02:30–03:30 pm S. E. RODABAUGH: *Point-set lattice-theoretic (poslat) topology: A (partly) categorical perspective*
- 03:30–04:00 pm A. SOSTAK: *On many-valued topologies on L-powersets of many-valued sets*  
04:00 pm Coffee Break
- 04:30–05:00 pm A. FRASCELLA, C. GUIDO: *Structured lattices and ground categories of L-sets*
- 05:00–05:30 pm T. KUBIAK: *Semicontinuous L-real valued functions*
- 05:30–06:00 pm J. M. BARONE: *Fuzzy filter functors revisited: A 2-categorical overview*

## Thursday, February 5, 2004

- 09:00–10:30 am U. HÖHLE: *Fuzzy sets and sheaves*  
10:30 am Coffee Break
- 11:00–11:30 am L. N. STOUT: *A categorical fabric for fuzzy predicate logic*
- 11:30–12:00 am J. GUTIERREZ GARCIA: *Order-reversing involutions and residuated lattices*  
12:00 am Lunch
- 01:30–7:00 pm EXCURSION: *voestalpine, Lentos*  
08:00 pm Dinner

## Friday, February 6, 2004

- 09:00–10:00 am M. A. GIL: *Fuzzy random variables: Development and state of the art*
- 10:00–10:30 am V. KRÄTSCHEMER: *Integrals of random fuzzy sets*  
10:30 am Coffee Break
- 11:00–11:30 am R. SCOZZAFAVA: *A bridge between fuzzy set theory and coherent conditional probabilities (I)*
- 11:30–12:00 am G. COLETTI: *A bridge between fuzzy set theory and coherent conditional probabilities (II)*
- 12:00–12:30 pm T. KROUPA: *Copulas and characterization of T-product possibility measures*
- 12:30–01:00 pm J. KORTELAINEN: *Modifying L-sets: Two views based on level-sets*  
01:00 pm Lunch
- 02:30–03:30 pm M. NAVARA, P. PTAK: *Regular measures on tribes of fuzzy sets*
- 03:30–04:00 pm M. GRABISCH: *Capacities on lattices*  
04:00 pm Coffee Break
- 04:30–05:00 pm A. DI NOLA, B. GERLA: *MV-algebras and semirings*
- 05:00–05:30 pm M. KALINA, O. NANASIOVA: *Joint distributions on MV-algebras as interactions of fuzzy events*
- 05:30–06:00 pm P. KUKKURAINEN: *Topological locally finite MV-algebra and the Riemann surface*

## Saturday, February 7, 2004

- 09:00–09:30 am J. K. MATTILA: *Construction of compositional modifiers generated by n-ary functions*
- 09:30–10:00 am F. KLAWONN: *The concept of independence in the context of similarity relations*
- 10:00–10:30 am U. BODENHOFER, B. DE BAETS, J. FODOR: *A review of construction and representation results for fuzzy weak orders*  
10:30 am Coffee Break
- 11:00–11:30 am M. SHIMODA: *Fuzzy group in a natural interpretation*
- 11:30–12:00 am R. BISDORFF: *On a natural fuzzification of Boolean logic*
- 12:00–12:30 pm M. DEMIRCI: *Vague ordered fields: Towards an axiomatic theory of vague real line*
- 12:30–01:00 pm M. TAKACS: *Residuum-based approximate reasoning with distance-based uninorms*  
01:00 pm Lunch