

LINZ
2007

28th Linz Seminar on Fuzzy Set Theory
**Fuzzy Sets, Probabilities, and Statistics –
Gaps and Bridges**

Bildungszentrum St. Magdalena, Linz, Austria
February 6 - 10, 2007

Program

Tuesday, February 6, 2007

- 09:00–09:15 am *Opening*
- 09:15–10:15 am G. DE COOMAN: *Connecting two theories of imprecise probability*
- 10:15–10:45 am G. COLETTI, R. SCOZZAFAVA:
Perception-based information in a coherent conditional probability setting
10:45 am Coffee break
- 11:15–12:00 am S. WEBER: *Uncertainty measures – problems concerning additivity*
- 12:00–12:45 pm U. HÖHLE: *Convergence of Radon probability measures*
12:45 pm Lunch
- 02:30–03:30 pm A. COLUBI: *Statistical inference about the means of fuzzy random variables: applications to the analysis of fuzzy- and real-valued data*
- 03:30–04:00 pm G. GONZÁLES-RODRÍGUEZ, Á. BLANCO, M. A. LUBIANO:
Estimation of a simple linear regression model for fuzzy random variables
04:00 pm Coffee break
- 04:30–05:00 pm A. WÜNSCHE: *Asymptotic tests for the Aumann-expectation of fuzzy random variables*
- 05:00–05:30 pm K. LENDELOVÁ, B. RIEČAN:
Probability theory on IF-events with applications in other fuzzy and quantum structures
- 05:30–06:00 pm A. MICHALÍKOVÁ: *On the extension of group-valued measures*

Wednesday, February 7, 2007

- 09:00–10:00 am J. J. QUESADA-MOLINA, S. SAMINGER, C. SEMPI:
Symmetric copulas with given sub-diagonal sections
- 10:00–10:30 am S. SAMINGER, C. SEMPI: *Triangle functions – a way to bridge gaps?*
10:30 am Coffee break
- 11:00–11:45 am F. DURANTE: *A new family of symmetric copulas*
- 11:45–12:30 pm G. SALVADORI, C. DE MICHELE: *Extremes in nature: an approach using copulas*
12:30 pm Lunch
- 02:30–03:30 pm J. LAWRY: *Label semantics as a framework for linguistic models in data mining*
- 03:30–04:00 pm R. SCOZZAFAVA, B. VANTAGGI:
Fuzzy inclusion and similarity through coherent conditional probability
04:00 pm Coffee break
- 04:30–05:00 pm F. SPIZZICHINO: *A concept of duality for multivariate exchangeable survival models*
- 05:00–05:30 pm B. DE BAETS, H. DE MEYER: *Orthogonal grid constructions of copulas*
- 05:30–06:00 pm E. ALVONI, P. L. PAPINI: *Quasi-concave copulas, asymmetry, transformations*

Thursday, February 8, 2007

- 09:00–10:00 am P. HÁJEK: *On fuzzy logics of “probably” – a survey*
- 10:00–10:30 am D. RADOJEVIĆ: *R-probability: fuzzy probability idea in Boolean frame*
10:30 am Coffee break
- 11:00–11:45 am C. G. FERMÜLLER:
Vagueness as semantic indeterminacy: Three bridges between probability and fuzzy logic
- 11:45–12:30 pm C. SOSSAI: *From observable-based to probabilistic reasoning*
12:30 pm Lunch
- 02:00 pm Beginning of the Social Program

Friday, February 9, 2007

- 09:00–10:00 am L. V. UTKIN: *Imprecise inference models in risk analysis*
- 10:00–10:30 am E. P. KLEMENT, R. MESIAR, E. PAP:
Integrals which can be defined on arbitrary measurable spaces
10:30 am Coffee break
- 11:00–11:45 am S. DESTERCKE, D. DUBOIS, E. CHOJNACKI:
On the relationships between random sets, possibility distributions, p -boxes and clouds
- 11:45–12:30 am M. GRABISCH, P. MIRANDA: *On the vertices of the k -additive core of capacities*
12:30 pm Lunch
- 02:30–03:00 pm M. NAVARA: *Probability and conditional probability on tribes of fuzzy sets*
- 03:00–03:30 pm S. GIOVE, S. GRECO, B. MATARAZZO:
Level dependent capacities and the generalized Choquet integral
- 03:30–04:00 pm F. DURANTE, E. P. KLEMENT, R. MESIAR; C. SEMPI:
Conjunctors and their residual implicators
04:00 pm Coffee break
- 04:30–06:00 pm ROUND TABLE: *Copulas and imprecise probabilities: relations and open problems*

Saturday, February 10, 2007

- 09:00–09:30 am G. COLETTI, B. VANTAGGI: *Conditional possibility: from numerical to qualitative approach*
- 09:30–10:00 am L. BORTOLUSSI, M. BORELLI, A. SGARRO:
Maximum possibility vs. maximum likelihood decisions
- 10:00–10:30 am C. WALKER, E. WALKER:
Subalgebras of the algebra of truth values of type-2 sets and their automorphisms
10:30 am Coffee break
- 11:00–11:30 am E. TURUNEN, J. MERTANEN: *A note on states on generalized residuated lattices*
- 11:30–12:00 am J. HANČL, L. MIŠÍK, J. T. TÓTH: *Limit points of sequences of fuzzy real numbers*
- 12:00–12:10 am *Closing*