

LINZ '97 – 18th Linz Seminar on Fuzzy Set Theory
Enriched Lattice Structures for Many-Valued and Fuzzy Logics

February 25 - March 1, 1997

Bildungszentrum St. Magdalena, Schatzweg 177, A-4040 Linz, Austria

PROGRAM

Tuesday, February 25, 1997

9:00 am - 10:30 am

Opening Session

Petr Hájek (Praha): *Basic fuzzy logic and t-norms*

Coffee Break

11:00 am - 11:45 am

Mai Gehrke, Carol Walker, Elbert Walker (Las Cruces, NM):

A mathematical setting for fuzzy propositional logic

11:45 am - 12:30 pm

Didier Dubois (Toulouse), Stephan Lehmke (Dortmund), Henri Prade (Toulouse):

A comparative study of logics of graded uncertainty and logics of graded truth

Lunch

2:30 pm-3:30 pm

Erich Peter Klement (Linz), Radko Mesiar (Bratislava), Endre Pap (Novi Sad):

Construction of t-norms via pseudo-inverses

3:30 pm - 4:00 pm

Michal Sabo (Bratislava): *On reverse of implicators*

Coffee Break

4:30 pm - 5:30 pm

Ulrich Höhle (Wuppertal): *GL-quantales: Q-valued sets and their singletons*

Wednesday, February 26, 1997

9:00 am - 10:00 am

Daniele Mundici (Milano): *Logic and computation of nonboolean partitions*

10:00 am - 10:30 am

Bernard De Baets (Gent), Radko Mesiar (Bratislava): *On the refinement of fuzzy partitions*

Coffee Break

11:00 am - 11:45 am

Endre Pap (Novi Sad): *A mathematical base for soft computing and related fields*

11:45 am - 12:30 pm

Costas A. Drossos (Patras), Mirko Navara (Praha): *Qualitative and quantitative valuation structures*

Lunch

2:30 pm - 3:30 pm

Ulrich Höhle (Wuppertal), Siegfried Weber (Mainz):

Conditional operators as a solution to the problem of conditioning

3:30 pm - 4:00 pm

Wolfgang Sander (Braunschweig): *A characterization theorem in the Dempster-Shafer theory*

Coffee Break

4:30 pm - 5:30 pm

Round Table I: *t-norms - their role in mathematics and logic*

Thursday, February 27, 1997

9:00 am - 10:00 am

Didier Dubois, Henri Prade (Toulouse):

The impossibility of compositionality in weighted logics of uncertainty

10:00 am - 10:30 am

Didier Dubois, Hélène Fargier (Toulouse), Philippe Fortemps (Mons), Henri Prade (Toulouse):

Leximin optimality and fuzzy set theoretic operations

Coffee Break

11:00 am - 11:45 am

Mai Gehrke, Carol Walker, Elbert Walker (Las Cruces, NM): *Nilpotent t-norms and negations*

11:45 am - 12:30 pm

Mai Gehrke, Carol Walker, Elbert Walker (Las Cruces, NM): *De Morgan systems on the unit interval*

Lunch

Excursion

Friday, February 28, 1997

9:00 am - 10:00 am

Pascale Fonck (Liège), János Fodor (Gödöllő), Marc Roubens (Liège): *An application of aggregation procedures to the definition of measures of similarity between fuzzy sets*

10:00 am - 10:30 am

Helmut Thiele (Dortmund): *On median quantifiers*

Coffee Break

11:00 am - 11:45 am

Bernard De Baets (Gent), Radko Mesiar (Bratislava): *Metrics based on triangular norms*

11:45 am - 12:30 pm

Bernard de Baets (Gent), János Fodor (Gödöllő):

On the structure of uninorms and their residual implicators

Lunch

2:30 pm - 3:15 pm

Michel Grabisch (Orsay): *k-additive and k-decomposable measures*

3:15 pm - 4:00 pm

Costas A. Drossos (Patras), Mirko Navara (Praha): *Matrix composition of t-norms*

Coffee Break

4:30 pm - 5:15 pm

Joszeff Dombi (Szeged): *Pliant logic*

5:15 pm - 6:00 pm

Open Problems

Saturday, March 1, 1997

9:00 am - 10:00 am

Sándor Jenei (Budapest): *Limit theorems and the family of nilpotent ordinal sums*

10:00 am - 10:30 am

Anna Kolesárová (Bratislava): *Preserving of similarity of fuzzy numbers*

Coffee Break

11:00 am - 12:30 pm

Round Table II: *Applications*

Closing Session

Lunch