LINZ '96 – 17th Linz Seminar on Fuzzy Set Theory
Fuzzy Sets, Logics, and Artificial Intelligence

Jointly with WG1 and WG3 of the EU COST Action 15
Many-Valued Logics for Computer Science Applications

February 20-24, 1996
Bildungszentrum St. Magdalena, Schatzweg 177, A-4040 Linz, Austria

PROGRAM

Tuesday, February 20, 1996

09:00-10:30 Session *Multiple-valued Logic 1*
09:00   U. Höhle (Wuppertal, Germany)   *Monoidal logic and Poincaré's paradox*
10:00   J. K. Mattila (Lappeenranta, Finland)   *On intensional logics with several operators*

10:30-11:00 Coffee Break

11:00-12:30 Session *Multiple-valued Logic 2*
11.00   M. K. Chakraborty, S. Basu (Calcutta, India)   *Introducing grade to some metalogical notions*
11:45   G. Gerla (Salerno, Italy)   *Closure operators for fuzzy logics*

12:30-14:00 Lunch Break

14:00-14:45 Session *Multiple-valued Logic 3*
14:00   L. Boldrin, C. Sossai (Padova, Italy)   *An intuitionistic view of possibilistic logic*

14:45-16:00 Session *Algebra 1: Fuzzy sets*
14:45   J. C. Fodor (Budapest, Hungary)   *Operations on the unit interval: some recent results*
15:30   W. Traczyk (Warsaw, Poland)   *Qualitative models with fuzzy values*

16:00-16:30 Coffee Break

16:30-17:45 Session *Algebra 2: MV-algebras*
16:30   C. Drossos (Patras, Greece)   *A many-valued generalization of the ultrapower construction*
17:15   P. Karazeris (Patras, Greece)   *The Boolean algebra freely generated by an MV-algebra*

Wednesday, February 21, 1996

09:00-10:30 Session *Multiple-valued Logic 4*	
09:00	V. Novák (Ostrava, Czech Republik) *Formal theories in fuzzy logic*
09:45	D. Butnariu (Haifa, Israel), E.P. Klement (Linz, Austria), S. Zafrany (Haifa, Israel) *Fuzzy propositional logics based on Frank's t-norms*

10:30-11:00 Coffee Break

11:00-12:30 Session *Multiple-valued Logic 5*	
11:00	D. M. Gabbay (London, UK) *How to make your logic fuzzy (Fibred semantics and the weaving of logics)*
12:00	S. Lehmke (Dortmund, Germany) *A resolution-based axiomatisation of 'bold' propositional fuzzy logic*

12:30-14:00 Lunch Break

14:00-15:30 Session *Similarity 1*	
14:00	F. Esteva, P. Garcia, L. Godo (Bellaterra, Spain) *On the multi-modal and many-valued approaches to similarity-based approximate reasoning*
14:45	F. Klawonn (Braunschweig, Germany) *The role of similarity in fuzzy logic*

15:30-16:00 Coffee Break

16:00-17:30 Round Table 1	
	The role of multiple-valued logic in knowledge representation and approximate reasoning

Thursday, February 22, 1996

09:00-10:30 Session *Similarity 2*	
09:00	H. Thiele (Dortmund, Germany) *On similarity based fuzzy clusterings*
10:00	L. Valverde (Palma de Mallorca, Spain) *Similarity reasoning*

10:30-11:00 Coffee Break

11:00-12:30 Session *Similarity 3*	
11:00	D. Mundici (Milano, Italy) *Partitions in many-valued logic and if-then rules*
12:00	D. Boixader (Sant Cugat de Vallès, Spain), J. Jacas (Barcelona, Spain) *T-indistinguishability operators and approximate reasoning via CRI*

12:30-13:30 Lunch Break

13:30 Excursion	

Friday, February 23, 1996

09:00-10:30 Session *Prioritized knowledge bases*
09:00   G. Brewka (Wien, Austria)   *Logic programs with dynamic preference information*
09:45   S. Benferhat, D. Dubois, H. Prade (Toulouse, France)   *Inconsistency-tolerant inference in prioritized knowledge bases*

10:30-11:00 Coffee Break

11:00-12:30 Session *Inconsistent and incomplete Information*
11:00   P. Besnard (Rennes, France)   *Logical approaches to reasoning from inconsistent information*
11:45   E. Orlowska (Warsaw, Poland)   *Information frames and information algebras: a duality theory*

12:30-14:00 Lunch Break

14:00-16:00 Session *Fuzzy logic*
14:00   L. Godo (Bellaterra, Spain), P. Hájek (Praha, Czech Republik)   *Fuzzy inference as deduction*
14:45   S. Gottwald (Leipzig, Germany)   *On the rule of syllogism for fuzzy implications*
15:30   S. Jenei (Budapest, Hungary)   *Continuity in Zadeh's compositional rule of inference*

16:00-16:30 Coffee Break

16:30-18:00 Round Table 2
Towards a unified view of multiple-valued logics: *writing plans for a research compendium within COST Action 15*

Saturday, February 24, 1996

09:00-10:30 Session *Conditioning and probability on MV-Algebras*
09:00   S. Weber (Mainz, Germany)   *Multiple-valued conditional objects*
09:45   A. Di Nola (Napoli, Italy)   *Probabilities in varieties of MV-algebras*

10:30-11:00 Coffee Break

11:00-12:30 Session *Possibility theory*
11:00   G. De Cooman (Gent, Belgium)   *From possibilistic information to Kleene's strong multi-valued logics*
11:45   A. Herzig (Toulouse, France)   *Possibilistic independence and belief change*

12:30-14:00 Lunch Break

14:00-15:00 Closing Session
General discussion

In parallel

13:00   Third Management Committee Meeting of the COST Action 15