

## Wednesday September 7, 2005

Time	
8:00-8:30	<b>Registration</b>
8:30-9:00	<b>Inauguration – “Sala de Actos” - Vertex Building</b>
9:00-9:50	<b>Plenary Session I: Bernadette Bouchon. “Sala de Actos” - Vertex Building</b>
9:50-10:10	<b>Coffee Break</b>
10:10-12:10	<b>Parallel Sessions</b>
	<b>S104: Fuzzy Methods in Learning and Data Mining. Chair: E. Hüllermeier</b>
10:10	<b>S104-01:</b> Inductive Learning of Fuzzy Regression Trees. M. Drobnic.
10:30	<b>S104-02:</b> Noise Clustering via Dynamic Data Assigning Assessment.. O. Georgieva, F. Klawonn, K. Tschumitschew.
10:50	<b>S104-03:</b> Improving the interpretability of data-driven evolving fuzzy systems. E. Lughofer, E. Hüllermeier, E.P.Klement.
11:10	<b>S104-04:</b> Towards the use of OWA operators for record linkage. J. Nin, V. Torra.
11:30	<b>S104-05:</b> Use of combined Takagi-Sugeno Fuzzy Models for the Prediction of Particle Sink Rates. A. Seeliger, M. Wagenknecht, R. Hampel.
11:50	<b>S104-06:</b> Learning Complexity-Bounded Rule-Based Classifiers by Combining. Association Analysis and Genetic Algorithms. Y. Yi, E. Huellermeier
	<b>Real World Applications: JEL132, 144, 153, 159, 199, 219. Chair: V. Profillidis</b>
10:10	<b>JEL132:</b> Fuzzy Models and Cointegration Analysis for the Forecast of Tourist Demand. V. Profillidis, G. Botzoris, P. Lathiras.
10:30	<b>JEL144:</b> High interpretability using a fuzzy system in a manufacturing process inspection. P. Mariño, V. Pastoriza, M. Santamaría, E. Martínez
10:50	<b>JEL153:</b> A Fuzzy Buyer Agent for an Automatic Negotiation Framework on E-Commerce. R. Manjavacas, J.J. Castro-Sanchez.
11:10	<b>JEL159:</b> An Adaptable Fuzzy Emotion Model for Emotion Recognition. N. Esau, L. Kleinjohann, B. Kleinjohann.
11:30	<b>JEL199:</b> Chaotic behavior of Fuzzy Recurrent Models. A. Sokolov, M. Wagenknecht.
11:50	<b>JEL219:</b> Measuring poverty using fuzzy set theory: Turkish case. M. A. Basaran, S. Gunay, A. B. Yereli, A. Basaran.
	<b>Fuzzy Modeling: JEL103, 108, 164, 239, 224, 244. Chair: C. Mencar</b>
10:10	<b>JEL103:</b> Applying Fuzzy Logic to Operations Management Research. D. Arias, J.M. Sánchez, J.M. Zurita.
10:30	<b>JEL108:</b> Computed answer based on fuzzy knowledgebase– a model for handling uncertain information –. A. Achs.
10:50	<b>JEL164:</b> Some Fundamental Interpretability Issues in Fuzzy Modeling. C. Mencar, G. Castellano, A. M. Fanelli.
11:10	<b>JEL224:</b> About the Use of Ontologies for Fuzzy Knowledge Representation. I. J. Blanco, N. Martín, C.Martínez-Cruz, M.A. Vila.
11:30	<b>JEL239:</b> Fuzzy Modeling in the Agro-Climatic Domain. M. Valdés, J. A. Botía, A. F. Gómez-Skarmeta.
11:50	<b>JEL244:</b> The fuzzy sets in maintenance process. M <sup>a</sup> S.García, M <sup>a</sup> T. Lamata.

	<b>S140-I: Fuzzy and Soft Computing Tools in Economy, Business and Management. Chair: E. López-Gonzalez</b>
10:10	<b>S140-01:</b> <i>A Formal Framework and New Related Methods when Facing with Granularity in Unsupervised Learning.</i> V. Georgescu.
10:30	<b>S140-02:</b> <i>Logical Management Tools: Strategic Oriented Fuzzy Systems.</i> R. Espin, M. Hernández, M.E. Albert, D. Alfonso, J. Marx-Gómez, O. von Guericke, M.I. Lecich.
10:50	<b>S140-03:</b> <i>Decision Making And Fuzzy Inference: A New Linked Approach.</i> R. Espin-Andrade, J. Marx-Gómez, M. I. Lecich.
11:10	<b>S140-04:</b> <i>A Genetic Fuzzy System for the New Products Development.</i> C. Mendaña-Cuervo, E. López-González, B. González-Pérez.
11:30	<b>S140-05:</b> <i>A Fuzzy Model For Work Performance Assessment.</i> M. Delgado, F. Cofré.
11:50	<b>S140-06:</b> <i>Knowledge Mobilization through Re-addressable Ontologies.</i> M. Delgado, R. Pérez-Pérez, I. Requena.
	<b>Theory of Fuzzy Sets-I: 111, 124, 128, 143, 179, 208. Chair: E. Trillas</b>
10:10	<b>JEL111:</b> <i>On the Characterization of Sels-dual Aggregation Operators.</i> K. Maes, S. Saminger, B. De Baets.
10:30	<b>JEL124:</b> <i>Aggregation and Non-Contradiction.</i> A. Pradera, E. Trillas.
10:50	<b>JEL128:</b> <i>Analysis of a mean operator for data fusion.</i> R. Emilion, A. Doncescu, S. Regis, A. Meril.
11:10	<b>JEL143:</b> <i>On Some New Forms of Cycle-Transitivity and Their Relation to Commutative Copulas.</i> B. De Schuymer, H. De Meyer, B. De Baets.
11:30	<b>JEL179:</b> <i>A generalization of the OWA operator to evaluate non monotonic quantifiers.</i> L. Lietard, D. Rocacher.
11:50	<b>JEL208:</b> <i>XAO Operators – The interval universe.</i> J. Lázaro, T. Calvo.
12:10-13:30	<b>Parallel Sessions</b>
	<b>Fuzzy Cardinality, Measures and Integrals I: JEL116, 131, 133, 165. Chair: P. Meyer</b>
12:10	<b>JEL116:</b> <i>New axiomatizations of the Shapley interaction index for bi-capacities.</i> F. Lange, M. Grabisch.
12:30	<b>JEL131:</b> <i>MYRIAD: a tool suite for MCDA.</i> C. Labreuche.
12:50	<b>JEL133:</b> <i>On the use of the Choquet integral with fuzzy numbers in Multiple Criteria Decision Aiding.</i> P. Meyer, M. Roubens.
13:10	<b>JEL165:</b> <i>A maximum quadratic entropy principle for capacity identification.</i> I. Kojadinovic.
	<b>Fuzzy Control I: JEL 106, 120, 139, 193. Chair: E. Alptekin</b>
12:10	<b>JEL106:</b> <i>Improved Dtc Of Induction Motor With Fuzzy Resistance Estimator.</i> S. Benaicha, F. Zidani, R. Nait Said, M.S. Nait Said.
12:30	<b>JEL120:</b> <i>Optimization of the Fuzzy Logic Controller for an Autonomous UAV.</i> J. C. Ervin, S. E. Alptekin, D. J. DeTurris.
12:50	<b>JEL139:</b> <i>Concept of Level-Controlled R-S Fuzzy Memory Circuit..</i> M. Petrik.
13:10	<b>JEL193:</b> <i>Intelligent coordinated control scheme for improving steam power plant operations during load rejections.</i> H. Ahcene, Z. Mimoun.

	<b>S105-I: Aggregation Operators: 01, 02, 05, 06. Chair: R. Mesiar</b>
12:10	<b>S105-1:</b> Construction of RET operators from aggregation functions. M. Mas, M. Monserrat, J. Torrens.
12:30	<b>S105-2:</b> The domination relation between continuous t-norms. S. Saminger, B. De Baets, H. De Meyer.
12:50	<b>S105-5:</b> Generators of t-norms in interval-valued fuzzy set theory. G. Deschrijver.
13:10	<b>S105-6:</b> Additive generators of discrete conjunctive aggregation operations. G. Mayor, J. Monreal.
	<b>S103-I: Evolutionary Fuzzy Systems. Chair: J. Casillas</b>
12:10	<b>S103-1:</b> A Working Hypothesis on the Semantics/Accuracy Synergy. P. Fazendeiro, J. Valente de Oliveira.
12:30	<b>S103-2:</b> Predictive Knowledge Discovery by Multiobjective Genetic Fuzzy Systems for Estimating Consumer Behavior Models. J. Casillas, O. Delgado, F. J. Martinez-Lopez.
12:50	<b>S103-3:</b> Resolving the Conflict Between Competitive and Cooperative Behavior in Michigan-Type Fuzzy Classifier Systems. F. P. Haslinger, U. Bodenhofer.
13:10	<b>S103-4:</b> Multiobjective Formulations of Fuzzy Rule-Based Classification System Design. H. Ishibuchi, Y. Nojima.
	<b>S113: Fuzzy Relations I. Chair: J. Jacas</b>
12:10	<b>S113-1:</b> Stability, Indistinguishability and Small Numbers. C. Alsina, E. Trillas.
12:30	<b>S113-2:</b> Strict Fuzzy Orderings in a Similarity-Based Setting. U. Bodenhofer, M. Demirci.
12:50	<b>S113-3:</b> Aggregating using T-indistinguishability Operators. J. Jacas, J. Recasens.
13:10	<b>S113-4:</b> An algorithm to compute a T-transitive opening of a proximity. L. Garmendía, A. Salvador.
13:30-14:50	<b>Lunch: "Polimenu"</b>
14:50-16:30	<b>Parallel Sessions</b>
	<b>S116-I: Fuzzy Sets in Probability and Statistics. Chair: E. Mrowka</b>
14:50	<b>S116-1:</b> Possibility theory, interval fuzzy sets and imprecise probability. D. Dubois, H. Prade.
15:10	<b>S116-2:</b> Probability theory on Lukasiewicz posets. K. Lendelova.
15:30	<b>S116-3:</b> Probability theory of fuzzy events. M. Navara.
15:50	<b>S116-4:</b> On axiomatic probability theory on IFS events. B. Riečan.
16:10	<b>S116-5:</b> From Fuzzy Data to a fuzzy decision function, three equivalent ways. A. Wünsche.
	<b>Fuzzy Mathematics and Fuzzy Logics I: JEL 117, 137, 138, 140, 220. Chair: A. Dvorak</b>
14:50	<b>JEL117:</b> On fuzzy goal programming with piecewise linear satisfaction functions. M. Jiménez.
15:10	<b>JEL137:</b> Using Fuzzy Logic Techniques to Simplify a Grading System of Cereals. M. N. Lakhoua, M. Annabi.
15:30	<b>JEL138:</b> Towards Formal Theory of Measure on Clans of Fuzzy Sets. T. Kroupa.
15:50	<b>JEL140:</b> Fuzzy theories with fuzzy equality. A. Dvorak.
16:10	<b>JEL220:</b> A fuzzy expression processor with modifiers and hedges, conceptual design and tests. J. A. Martin, T. de Pedro, R. García-Rosa, C. González.

	<b>S105-II: Aggregation Operators: 03, 07, 08, 09, 16. Chair: R. Mesiar</b>
14:50	<b>S105-3:</b> On compensatory bipolar aggregation operators. C. Labreuche, M. Grabisch.
15:10	<b>S105-7:</b> Distributive residual implications from uninorms. D. Ruiz-Aguilera, J. Torrens.
15:30	<b>S105-8:</b> On some properties of reverses of binary operations. M. Šabo.
15:50	<b>S105-9:</b> Applications of Schur-concave t-norms in pFCSP. E. Pap, A. Takači.
16:10	<b>S105-16:</b> A note on ordinal sums of t-norms on bounded lattices. S. Saminger, E.P. Klement, R. Mesiar.
	<b>Theory of Fuzzy Sets II: JEL 107, 134, 135, 201, 246. Chair: C. Alsina</b>
14:50	<b>JEL107:</b> On Iterative Boolean-Like Laws of Fuzzy Sets. C. Alsina, E. Trillas.
15:10	<b>JEL134:</b> Contour Lines: The Lost World. K. Maes, B. De Baets.
15:30	<b>JEL135:</b> On computing dominant and absorbent kernels in bipolar valued digraphs. R. Bisdorff.
15:50	<b>JEL201:</b> Algebraic Transfer Principle in Fuzzy Theory. M. Kondo.
16:10	<b>JEL246:</b> Calculation and approximate reasoning with ordered fuzzy numbers. W. Kosinski, P. Prokopowicz, D. Slezak.
	<b>S140-II: Fuzzy and Soft Computing tools in Economy, Business and Management. Chair: M. Delgado</b>
14:50	<b>S140-07:</b> Using dmFSQL For Financial Management. R. Alberto Carrasco, M. Amparo Vila.
15:10	<b>S140-08:</b> Using Fuzzy Data Cube for Exploratory Analysis in Financial Economy. C. Molina, M. E. Gómez, J. M. Torre, M. A. Vila.
15:30	<b>S140-09:</b> Comparative study of the Wages in Spain by using ADRI and TFC. J. Moreno-García, L. Jiménez.
15:50	<b>S140-10:</b> The performance of elements of fixed assets immersed in a context of uncertainty. A. M. Gil-Lafuente.
16:10	<b>S140-11:</b> Predisposition to Auto-Maintenance: Fuzzy Analysis. A.M. Gento, A. Redondo.
16:30-16:50	<b>Coffee Break</b>
16:50-17:40	<b>Plenary Session II: Francesc Esteva. "Sala de Actos" - Vertex Building</b>

<b>17:40-18:40</b>	<b>Parallel Sessions</b>
	<b>Intuitionist Fuzzy Sets and Related Concepts: JEL 123, 126, 196. Chair: J. Kacprzyk</b>
<b>17:40</b>	<b>JEL123:</b> Geometric Interval Type-2 Fuzzy Systems. S. Coupland, R. John.
<b>18:00</b>	<b>JEL126:</b> Self-Contradiction Degrees in Intuitionistic Fuzzy Logic. E. Castiñeira, S. Cubillo, C. Torres, V. Zarzosa.
<b>18:20</b>	<b>JEL196:</b> A new measure of entropy and its connection with a similarity measure for intuitionistic fuzzy sets. E. Szmidt, J. Kacprzyk.
	<b>S109-I: Eventology of Random Fuzzy Sets: 02, 03, 04. Chair: E. Goldenok</b>
<b>17:40</b>	<b>S109-02:</b> Peculiarities Of Application Of Direct And Inverse Eventological Markowitz' Problems. E. E. Goldenok.
<b>18:00</b>	<b>S109-03:</b> On Inverse Eventological Markowitz' Problem. S. V. Klochkov.
<b>18:20</b>	<b>S109-04:</b> On new Notion of Eventological Means of Fuzzy Events. A. O. Vorob'ov.
	<b>Evolutionary Fuzzy Systems: JEL 130, 182, 190. Chair: C. Labreuche</b>
<b>17:40</b>	<b>JEL130:</b> Argumentation of the results of a multi-criteria evaluation model in individual and group decision aiding. C. Labreuche.
<b>18:00</b>	<b>JEL182:</b> Evolutionary temporal fuzzy control applied to adaptive distributed routing. M. A. Gadeo, J. R. Velasco.
<b>18:20</b>	<b>JEL190:</b> Incremental optimization of FIS using reinforcement learning. Pierre-Yves Glorennec.
	<b>Fuzzy Neural Networks: JEL 158, 194, 233. Chair: J. Paulo Carvalho</b>
<b>17:40</b>	<b>JEL158:</b> One step ahead prediction using Fuzzy Boolean Neural Networks. J. Tomé, J. P. Carvalho.
<b>18:00</b>	<b>JEL194:</b> The Neural Model of Dynamics of Unmanned Underwater Vehicle. M. B. Zak.
<b>18:20</b>	<b>JEL233:</b> On the technique of linguistic classification based on fuzzy neural network. V. A. Rybkin, I. S. Soldatenko, T. V. Bandurina.
	<b>Fuzzy Heuristics and Rule Bases: JEL 110, 197, 207. Chair: R. Fuentes-Gonzalez</b>
<b>17:40</b>	<b>JEL110:</b> Treatment of the incomplete information in L-Fuzzy contexts. C. Alcalde, A. Burusco, R. Fuentes-Gonzalez.
<b>18:00</b>	<b>JEL197:</b> Fuzzy Boxplot-based Induction Rules. Towards automatic generation of classes-interpretations. K. Gibert, A. Perez-B.
<b>18:20</b>	<b>JEL207:</b> A linguistic fuzzy model with a monotone rule base is not always monotone. E. Van Broekhoven and B. De Baets.
<b>18:40-20:10</b>	<b>EUSFLAT MEETING: "Sala de Actos" - Vertex Building</b>
<b>20:30-22:30</b>	<b>Reception "La Cup Square"</b>

## Thursday September 8, 2005

Time	
8:15-10:15	<b>Parallel Sessions</b>
	<b>Fuzzyness Probability and Possibility: JEL 119, 180, 181, 205, 229, 240. Chair: D. Dubois</b>
8:15	<b>JEL119:</b> A fuzzy approach to R&D project selection. C. Carlsson, R. Fuller, P. Majlender.
8:35	<b>JEL180:</b> Probabilities of Events Induced by Fuzzy Random Variables. C. Baudrit, I. Couso, D.Dubois.
8:55	<b>JEL181:</b> A fuzzy approach to capacity constrained MRP systems. J. Mula, R. Poler, J.P. García-Sabater.
9:15	<b>JEL205:</b> Probability on L-posets. K.Lendelova.
9:35	<b>JEL229:</b> Min-based fusion of possibilistic networks. S. Benferhat.
9:55	<b>JEL240:</b> Lexicographic Refinements in the Context of Possibilistic Decision Theory. L. Godo, A. Zapico.
	<b>S107: Soft Computing for Information Access on the Web. Chair: J. A. Olivas</b>
8:15	<b>S107-1:</b> e-Bay.Net: Helping Users to Buy in e-commerce Applications. L.M. de Campos, J.M. Fernandez-Luna J.F. Huete.
8:35	<b>S107-2:</b> A Reflection on the use of And. S. Guadarrama, E. Renedo.
8:55	<b>S107-3:</b> A New Model of Linguistic Weighted Information Retrieval System. E. Herrera-Viedma, A. G. López-Herrera, C. Porcel.
9:15	<b>S107-4:</b> Personalized Information Retrieval system in the Framework of Fuzzy Logic. M. Oussalah, A. Eltigani.
9:35	<b>S107-5:</b> Using graph-based fuzzy measures for measuring the similarity between words. V. Torra, Y. Narukawa.
9:55	<b>S107-6:</b> Fuzzy Cognitive Maps application for Web mining. A. Kakolyris, C. Stylios, V. Georgopoulos.
	<b>S116-II: Fuzzy Sets In Probability and Statistics. Chair: P. Grzegorzewski</b>
8:15	<b>S116-06:</b> Bootstrap statistical techniques and fuzzy random variables. M. Montenegro, G. González-R., A. Colubi, M.A. Gil.
8:35	<b>S116-07:</b> Fuzzy histograms: A Statistical Analysis. L. Walman, U. Kaymak, S. Van den Berg.
8:55	<b>S116-08:</b> Sampling inspections by attributes which are based on soft quality Standards. V. Krätschmer.
9:15	<b>S116-09:</b> Computing Temporal Trends in Web Documents. M.Last.
9:35	<b>S116-10:</b> Two-Sample Median Test for Vague Data. P. Grzegorzewski.
9:55	<b>S116-11:</b> The Friedman Test with Missing Observations. E. Mrowka.
	<b>S106: Normal Forms in Fuzzy Approximation and Interpolation. I. Perfilieva</b>
8:15	<b>S106-01:</b> Normal forms based fuzzy systems. M. Dankova.
8:35	<b>S106-02:</b> Some general considerations on the evaluation of fuzzy rule systems. S. Gottwald.
8:55	<b>S106-03:</b> Approximating models based on fuzzy transforms. I. Perfilieva.
9:15	<b>S106-04:</b> Genetic algorithms in fuzzy approximation. M. Dankova, M. Stepnicka.
9:35	<b>S106-05:</b> Fuzzy relation equations with dual composition. L. Noskova
9:55	<b>S106-06:</b> Data compression on the basis of fuzzy transforms. I. Perfilieva, R. Valasek.

	<b>S120: Fuzzy and Soft Computing Techniques in Image Processing. Chair: J. Chamorro</b>
8:15	<b>S120-01:</b> Possibilistic C-Means in Scene Matching. O. Sjahputera, J. M. Keller.
8:35	<b>S120-02:</b> An Approach to Image Retrieval on Fuzzy Object-Relational Databases using Dominant Color Descriptors. J. Chamorro, J. M. Medina, C. Barranco, E. Galán-Perales, J. M. Soto.
8:55	<b>S120-03:</b> On the Fuzzy Texture Spectrum for Natural Microtextures Characterization. A. Barceló, E. Montseny, P. Sobrevilla.
9:15	<b>S120-04:</b> On Automatic Selection of Fuzzy Homogeneity Measures for Path-based Image Segmentation. B. Prados-Suárez, J. Chamorro-Martínez, D. Sánchez.
9:35	<b>S120-05:</b> Progressive scan conversion based on edge-dependent interpolation using fuzzy logic. P. Brox, I. Baturone, S. Sánchez-Solano.
9:55	<b>S120-06:</b> An approach to Color Gradient Vector Argument considering Data Uncertainty. E. Montseny, B. Prados-Suárez, P. Sobrevilla, S. Romani.
10:15-10:35	<b>Coffee Break</b>
10:40-11:30	<b>Plenary Session I: James Bezdek. "Sala de Actos" – Vertex Building</b>
11:30-13:10	<b>Parallel Sessions</b>
	<b>S108: Fuzzy Optimization Models in Real Problems. Chair: J.L. Verdegay</b>
11:30	<b>S108-01:</b> Fuzzy Portfolio Selection: a comparative study. J. D. Bermúdez, V. Liern, J. V. Segura, D. Torres, E. Vercher.
11:50	<b>S108-02:</b> Multiobjective Evolutionary Fuzzy Modelling in Mobile Robotics. J. M. Lucas, H. Martínez, F. Jiménez.
12:10	<b>S108-03:</b> Fuzzy Optimization Problems in Wavelength Division Multiplexing (WDM) Networks. B. Melián, J. L. Verdegay.
12:30	<b>S108-04:</b> Heuristics to model the dependencies between Features in Fuzzy Pattern Matching. J. M. Cadenas, M. C. Garrido, J. J. Hernández.
12:50	<b>S108-05:</b> Soft Computing based Decision Support Systems: Two Prototypes for Combinatorial Optimization Problems. J. I. Peláez, A. Mesas, D. Pelta.
	<b>S114: Fuzzy Relations II. Chair J. Recasens</b>
11:30	<b>S114-01:</b> Indistinguishability in cooperative games. E. Hernández, J. Recasens.
11:50	<b>S114-02:</b> The vague sum and product of a finite number of real numbers in vague arithmetic. M. Demirci.
12:10	<b>S114-03:</b> Multiresolution Analysis and Fuzzy Indistinguishability Operators: a first approach. A. R. De Soto.
12:30	<b>S114-04:</b> A principled approach to fuzzy rule base interpolation using similarity relations. B. Bouchon-Meunier, F. Esteva, L. Godo, M. Rifqi, S. Sandri.
12:50	<b>S114-05:</b> A T-transitive approximation of a reflexive and symmetric fuzzy relation. L. Garmendía, A. Salvador.

	<b>S115: Non Classical Unification and Generalized Logical Models. Chair: J. Medina</b>
11:30	<b>S115-01:</b> Reasoning with uncertainty and context-dependent languages. C. Sossai.
11:50	<b>S115-02:</b> A connection between Similarity Logic Programming and Gödel Modal Logic. L. Blandi, L. Godo, R. Rodríguez.
12:10	<b>S115-03:</b> Fuzzy logic as an optimization task. P. Vojtás.
12:30	<b>S115-04:</b> Incomplete Fuzzy Information in Prolog. S. Muñoz-Hernandez, C. Vaucheret.
12:50	<b>S115-05:</b> Towards compositions of partially ordered monads. P. Eklund, M. A. Galán, W. Gahler, J. Medina, M. Ojeda-Aciego, A. Valverde.
	<b>S150: Soft Computing for Signal Processing; JEL167, JEL221. Chair: J. Gutiérrez-Rios</b>
11:30	<b>S150-01:</b> A Fuzzy Logic Approach to Solve Call Admission Control Issues in CDMA Systems. P. Dini, R. Cusani.
11:50	<b>S150-02:</b> Fuzzy logic and systems for signal separation. J. Serra, A. Pérez Neira.
12:10	<b>S150-03:</b> Approximation of fuzzy control response by delta-sigma modulation. J. Gutiérrez-Rios, F. Fernández Hernández.
12:30	<b>JEL167:</b> Robust Pole Placement for Fuzzy Models with Parametric Uncertainties: An LMI Approach. W. El Messoussi, O. Pagès, A. El Hajjaji.
12:50	<b>JEL221:</b> EMG-based Finger Movement Classification using transparent Fuzzy System. A. Zeghib, F. Palis, Fathi Ben-Ouezdou .
	<b>S109-II: Eventology of Random Fuzzy Events. 109-01, 05, 06, 07, 08. Chair: O. Vorob'ov</b>
11:30	<b>S109-01:</b> Eventological Theory Of Random Fuzzy Events. Oleg Yu. Vorob'ov.
11:50	<b>S109-05:</b> Recurrent Events And Fuzzy Sets. T. V. Kupriyanova.
12:10	<b>S109-06:</b> Quasi-Entropies Of Eventological Distributions. D. V. Semenova.
12:30	<b>S109-07:</b> Eventological Models Of Verbal Associations. A. V. Dedova.
12:50	<b>S109-08:</b> Eventological System Analysis And Its Applications. G. M. Boldyr.
13:10-14:30	<b>Lunch: "Polimenu"</b>
14:30-16:30	<b>Parallel Sessions</b>
	<b>T-Norms and Related Concepts: JEL 104, 136, 176, 187, 204. Chair: F. Esteva</b>
14:30	<b>JEL104:</b> A note on pseudo-Archimedean and non-cancellative <i>t</i> -norm. F. Karaçal.
14:50	<b>JEL136:</b> Extending the Monoidal T-norm Based Logic with an Independent Involutive Negation. T. Flaminio, E. Marchioni.
15:10	<b>JEL176:</b> On varieties generated by Weak Nilpotent Minimum <i>t</i> -norms. C. Noguera, F. Esteva, J. Gispert.
15:30	<b>JEL187:</b> Extended Triangular Norms on Gaussian Fuzzy Sets. J. T. Starczewski.
15:50	<b>JEL204:</b> Stronger version of standard completeness theorem for MTL. R. Horcik.



	<b>Fuzzy Relations and Fuzzy Graphs: JEL 146, 155, 169, 177, 200, 237. Chair: J. Montero</b>
14:30	<b>JEL146:</b> Basics of a formal theory of fuzzy partitions. P. Cintula.
14:50	<b>JEL155:</b> Sociometry Analysis System Applying Fuzzy Theory. K. Shinkai.
15:10	<b>JEL169:</b> Inclusion of Fuzzy Numbers – The Variable Plateau Case. M. Wagenknecht, V. Schneider.
15:30	<b>JEL177:</b> From sensitivity and specificity to confirmation and occurrence. T. Kiseliova, C. Moraga.
15:50	<b>JEL200:</b> An Approach to Consensus Reaching in Multiperson Decision Making Problems with Incomplete Information. S. Alonso, E. Herrera-Viedma, F. Chiclana, F. Herrera.
16:10	<b>JEL237:</b> A dimension-based representation in multicriteria decision making. D. Gómez, J.Montero, J. Yáñez.
	<b>S105-III: Aggregation Operators. 105-4, 10, 11, 12, 14, JEL156. Chair: T. Calvo</b>
14:30	<b>S105-04:</b> A general construction for unipolar and bipolar interpolative aggregation. M. Grabisch, Ch. Labreuche.
14:50	<b>S105-10:</b> Triangular norms and $k$ -Lipschitz property. A. Mesiarová.
15:10	<b>S105-11:</b> Discrete copulas – what they are. R. Mesiar.
15:30	<b>S105-12:</b> Copulas with given diagonal section: some new results. F. Durante, R. Mesiar, C. Sempi.
15:50	<b>S105-14:</b> Identification of general and double aggregation operators using monotone smoothing. G. Beliakov, T. Calvo.
16:10	<b>JEL156:</b> A complete description of comparison meaningful functions. J. Luc Marichal, R. Mesiar, T. Rauckschlossov.
	<b>Fuzzy Mathematics and Fuzzy Logics II: JEL 145, 175, 178, 217, 235. Chair: D. Dubois</b>
14:30	<b>JEL145:</b> Towards a formal theory of fuzzy Dedekind reals. L. Behounek.
14:50	<b>JEL175:</b> Cost Estimations for Large Scale Engineering Projects under Uncertainties. D. Ruan, D. Maes, H. A. Abderrahim, J. Liu, L. Xu, J.B. Yang.
15:10	<b>JEL178:</b> Constructions of Models in Fuzzy Predicate Logics. P. Murinova.
15:30	<b>JEL217:</b> Practical use of fuzzy implicative gradual rules in knowledge representation and comparison with Mamdani rules. H. Jones, S. Guillaume, B. Charnomordic, D. Dubois.
15:50	<b>JEL235:</b> Fuzzy Logics and Sub-structural Logics without Exchange. M. F. Kawaguchi, O. Watari, M. Miyakoshi.
	<b>Decision Making and Optimization: JEL 113, 163, 166, 209, 238. Chair: H. Prade</b>
14:30	<b>JEL113:</b> Matrix Inference in Fuzzy Decision Trees. S. Aja-Fernández, C. Alberola-López.
14:50	<b>JEL163:</b> A decision support system prototype for implementing an interactive fuzzy multiple objective optimization method. F. Wu, J. Lu, G. Zhang.
15:10	<b>JEL166:</b> Entropy of bi-capacities. I. Kojadinovic, J.-Luc Marichal.
15:30	<b>JEL209:</b> E-business recommendation functionalities: handling uncertainty in a multi-criteria decision-making support system.A. Denguir-Rekik, G. Mauris, J. Montmain.
15:50	<b>JEL238:</b> Qualitative evaluation of decisions in an argumentative manner –A general discussion in a unified setting. H. Prade.
16:10-16:30	<b>Coffee Break</b>
16:30-17:20	<b>Plenary Session II: Lotfi A. Zadeh. “Sala de Actos” – Vertex Building</b>

<b>17:30-18:50</b>	<b>Parallel Sessions</b>
	<b>S103-II: Evolutionary Fuzzy Systems. 103-05 to 08. Chair: B. Carse</b>
<b>17:30</b>	<b>S103-05: Hybrid Genetic Algorithms and Clustering.</b> F. Mota Filho, F. Gomide.
<b>17:50</b>	<b>S103-06: First Results from Further Experimental Comparisons Between Pittsburgh and Michigan Fuzzy Classifier Systems for Mobile Robotics.</b> A.G. Pipe, B. Carse.
<b>18:10</b>	<b>S103-07: Assessing the differences in accuracy between GFSs with bootstrap tests.</b> L. Sanchez, J. Otero, J. Alcalá.
<b>18:30</b>	<b>S103-08: Learning compact fuzzy rule-based classification systems with genetic programming.</b> F. J. Berlanga, M <sup>a</sup> J. del Jesús, F. Herrera.
	<b>Knowledge-Based Systems: JEL 157, 172, 173, 214. Chair: L. Magdalena</b>
<b>17:30</b>	<b>JEL157: Fuzzy Chess Tactics.</b> J. P. Carvalho, N. Cavaco Horta, D. Chang Yan, P. Ramos e Silva.
<b>17:50</b>	<b>JEL172: On Some Characterizations of Complete Fuzzy Preorders.</b> S. Díaz, B. De Baets, S. Montes.
<b>18:10</b>	<b>JEL173: A Simplification Process of Linguistic Knowledge Bases.</b> J. M. Alonso, L. Magdalena, S. Guillaume.
<b>18:30</b>	<b>JEL214: Integrating induced knowledge in an expert fuzzy-based system for intelligent motion analysis on ground robots.</b> J. M. Alonso, L. Magdalena, S. Guillaume, M. A. Sotelo, L. M. Bergasa, M. Ocaña.
	<b>Pattern Recognition and Image Processing: JEL 125, 149, 174, 195. Chair: J. Aguilar</b>
<b>17:30</b>	<b>JEL125: A Fuzzy Clustering for Supervision of Biological Processes by Image Processing.</b> J.C Atine, A. Doncescu, J. Aguilar-Martin.
<b>17:50</b>	<b>JEL149: Learning Fuzzy If-Then Rules for Pattern Classification with Weighted Training Patterns.</b> T. Nakashima, Y. Yokota, H. Ishibuchi, G. Schaefer.
<b>18:10</b>	<b>JEL174: Learning from uncertain image data using granular fuzzy sets and bio-mimetic applicability functions.</b> J. Rossiter, T. Mukai.
<b>18:30</b>	<b>JEL195: On the levels of fuzzy mappings and applications to optimization.</b> Y. Chalco-Cano, H. Román-Flores, M. A. Rojas-Medar.
	<b>S130-I: Intelligent Text and Web Mining and Retrieval Issues. 130-01 to 04. Chair: M. J. Martín-Bautista</b>
<b>17:30</b>	<b>S130-01: Text mining: intermediate forms on knowledge representation.</b> C. Justicia, D. Sánchez, M.J. Martín-Bautista, M <sup>a</sup> . A. Vila.
<b>17:50</b>	<b>S130-02: RSF - A New Tree Mining Approach with an Ecient Data Structure.</b> F. Del Razo, A. Laurent, P. Poncelet, M. Teisseire.
<b>18:10</b>	<b>S130-03: Filtering Information with imprecise social criteria: A FOAF-based backlink model.</b> M.A. Sicilia, D. Palomar, E. García .
<b>18:30</b>	<b>S130-04: On retrieval guided by extracted domain-specific knowledge.</b> T. Andreassen, R. Knappe, H. Bulskov.
	<b>S112: Soft Computing in Bioinformatics. Chair: D. Pelta</b>
<b>17:30</b>	<b>S112-01: Selecting protein fuzzy contact maps through information and structure measures.</b> C. Bousoño-Calzón, A. Oropesa-García , N. Krasnogor.
<b>17:50</b>	<b>S112-02: Fuzzy P systems and their applications in computational biology.</b> J. Casasnovas, F. Rosselló.
<b>18:10</b>	<b>S112-03: Fuzzy Clustering in Biochemical Analysis of Cancer Cells.</b> X.-Y. Wang, J. M. Garibaldi, B. Bird M.W. George.
<b>18:30</b>	<b>S112-04: Protein Structure Comparison through Fuzzy Contact Maps and the Universal Similarity Metric.</b> D. Pelta, J. R. Gonzalez, N. Krasnogor.
<b>20:30-24:00</b>	<b>Banquet</b>

## Friday September 9, 2005

Time	
9:00-10:20	<b>Parallel Sessions</b>
	<b>Fuzzy Cardinality Measures and Integrals II: JEL 152, 186, 192, 227. Chair: H. Román-Flores</b>
9:00	<b>JEL152:</b> An axiomatization of trapezoidal membership functions defined on extensive structures. T. Marchant.
9:20	<b>JEL186:</b> Robust skin detection based on the fuzzy integral. A. Olano, A. Soria-Frisch, R. Verschae.
9:40	<b>JEL192:</b> Continuity of set defuzzification methods. H. Román-Flores, Y. Chalco-Cano, A. Flores-Franulic.
10:00	<b>JEL227:</b> Scalable, Fuzzy, Multiclassifier System. P. Bulacio, L. Magdalena, E. Tapia.
	<b>Fuzzy Control II: JEL 189, 198, 203, 216. Chair: L.M. San José-Revuelta</b>
9:00	<b>JEL189:</b> Tuning methodology for a fuzzy PI controller. Pierre-Yves Glorennec .
9:20	<b>JEL198:</b> Fuzzy Trajectory Control Design for Underwater Robot. J. Garus .
9:40	<b>JEL203:</b> Robust Output Fuzzy Control: Application to Vehicle Lateral Dynamics. M. Chadli, A. El Hajjaji.
10:00	<b>JEL216:</b> A Recursive SAM Fuzzy System for the Detection Performance Monitoring in Digital Communications Problems. L. M. San José-Revuelta.
	<b>Data Bases and Data Mining: JEL 202, 210, 228, 230. Chair: R. Kruse</b>
9:00	<b>JEL202:</b> About Cardinality-based Possibilistic Queries Against Possibilistic Databases. P. Bosch, N. Lietard, O. Pivert.
9:20	<b>JEL210:</b> Information Miner - a Data Analysis Platform. F. Rügheimer, R. Kruse.
9:40	<b>JEL228:</b> Towards a XML Fuzzy Structured Query Language. C. D. Barranco, J. R. Campaña, J. M. Medina.
10:00	<b>JEL230:</b> Manipulating fuzzy summaries of databases: unary operators and their properties. L. Naoum, G. Raschia, N. Mouaddib.
	<b>Theory of Fuzzy Sets III: JEL 148, 218, 232, 245. Chair: H. Bustince</b>
9:00	<b>JEL148:</b> Fitting Piecewise Linear Copulas to Data. H. De Meyer, B. De Baets.
9:20	<b>JEL218:</b> On some properties of mixing OWA operators. R. R. Yager, L. Troiano.
9:40	<b>JEL232:</b> Fuzzy regression analysis using trapezoidal fuzzy numbers. S. Charfeddine, K. Zbidi, F. Mora-Camino.
10:00	<b>JEL245:</b> Proximity Functions. Application to Fuzzy Thresholding. H. Bustince, V. Mohedano, E. Barrenechea, M. Pagola.
	<b>S130-II: Intelligent Text and Web Mining and Retrieval Issues. 130-05 to 08. J.I. Blanco</b>
9:00	<b>S130-05:</b> On flexible database querying via extensions to fuzzy sets. G. De Tré, R. De Caluwe J. Kacprzyk, S. Zadrozny.
9:20	<b>S130-06:</b> Using an Interlingua for Document Knowledge Representation. J. Cardeñosa, C. Gallardo, L. Iraola.
9:40	<b>S130-07:</b> Proposal of a Document Cluster Representation based on Fuzzy Deformable Prototypes. F.P. Romero, J.A. Olivas, P.J. Garcés.
10:00	<b>S130-08:</b> Gathering information on the Web using fuzzy linguistic agents and Semantic Web technologies. E. Herrera-Viedma, E. Peis, J.M. Morales-del-Castillo.

10:30-11:00	<b>Coffee Break</b>
11:00-13:00	<b>Round Table: Technology. Chair: P. Bonisone. "Sala de Actos" – Vertex Building</b>
13:00-14:30	<b>Lunch: "Polimenu"</b>
14:40-15:30	<b>Plenary Session I: Vilem Novak. "Sala de Actos" – Vertex Building</b>
15:30-16:50	<b>Parallel Sessions</b>
	<b>Fuzzy Clustering and Classification: JEL 147, 171, 185, 206. Chair: V. Patrascu</b>
15:30	<b>JEL147: A Generalization of Gustafson-Kessel Algorithm using a New Constraint Parameter.</b> V. Patrascu.
15:50	<b>JEL171: Fuzzy Logic impact on the determination of the cereal transaction quality.</b> A. A. Damak, M. Annabi.
16:10	<b>JEL185: Identifying fuzzy systems from numerical data with Xfuzzy.</b> I. Baturone, F. J. Moreno-Velo, A. Gersnoviez.
16:30	<b>JEL206: Interval semimetric spaces for approximate distances.</b> C. Coppola, T. Pacelli.
	<b>Information Retrieval and Information access on the Web: JEL 141, 162, 188, 212. Chair: A. HadjAli</b>
15:30	<b>JEL141: Improving Document Ranking in Information Retrieval Using Ordered Weighted Aggregation and Leximin Refinement.</b> M. Boughanem, Y. Loiseau, H. Prade.
15:50	<b>JEL162: Weakening of Fuzzy Relational Queries: an Absolute Proximity Relation-Based Approach.</b> P. Bosc, A. HadjAli, O. Pivert.
16:10	<b>JEL188: Query Propagation in Possibilistic Information Retrieval Networks.</b> A. H. Brini, L. M. de Campos, D. Dubois, M. Boughanem.
16:30	<b>JEL212: A fuzzy set approach to concept-based information retrieval.</b> M. Baziz, M. Boughanem, G. Pasi, H. Prade.
	<b>S105-IV: Aggregation Operators. 105-13, 15, 17, 18. Chair: A. Kolesárová</b>
15:30	<b>S105-13: On affine sections of 1-Lipschitz aggregation operators.</b> A. Kolesárová, E.P.Klement.
15:50	<b>S105-15: Application of aggregation operators in regime-switching models for exchange rates.</b> J. Komorník, M. Komorníková.
16:10	<b>S105-17: Łukasiewicz filters and their Cartesian products.</b> M. Kalina.
16:30	<b>S105-18: k-Lipschitz strict triangular norms.</b> R. Ghiselli-Ricci, R. Mesiar.
	<b>S102: Neural, Neuro-Fuzzy and Statistical Learning Techniques. Chair: J.M. Benítez</b>
15:30	<b>S102-01: T-norms and t-conorms in multilayer perceptrons.</b> C.J.Mantas.
15:50	<b>S102-02: Interpretation of Support Vector Machines by means of Fuzzy Rule-Based Systems.</b> J.L.Castro, L.D.Flores-Hidalgo, C.J.Mantas.
16:10	<b>S102-03: Neuro-Fuzzy prediction of airborne pollen concentrations.</b> J.L. Aznarte M., D. Nieto Lugilde, J. M.Benítez, C. De Linares Fernández.
16:30	<b>S102-04: Building Fuzzy Classifiers with Pairwise Multiclass Support Vector Machines.</b> J. M. Benítez, J. L. Castro, J. M. Puche.
17:00-17:30	<b>Conference Closing</b>