

IFSA 2003
June 29-July 2, 2003 Istanbul Turkey

Technical Program

Structure of the Program

| | | 1 | 2 | 3 | 4 |
|----|--------------------|----------------------|-----------|-----------|-------------------|
| | 30 June MON | BR1 | BR2 | BR3 | Mercury |
| MA | 08:30-09:20 | Opening & KN Address | | | |
| | 09:20-09:30 | Moving | | | |
| MB | 09:30-11:10 | 4LP:A04L | 4LP:A10L | 4LP:A01X1 | 4LP:A05L |
| | 11:10-11:30 | Coffee | | | |
| MC | 11:30-12:30 | 4SP:A04S | 4SP:A10S | 4SP:A01S | 4SP:A05S |
| | 12:30-14:00 | Lunch | | | |
| MD | 14:00-14:45 | 3SP:A06S | 3SP:A07S | 3SP:A01S | 3 SP:A10X1 |
| | 14:45-14:50 | Moving | | | |
| ME | 14:50-15:50 | 4SP:A04S | 4SP:A10S | 4SP:A01S | 4SP:A05S |
| | 15:50-16:10 | Coffee | | | |
| MF | 16:10-18:15 | 5LP:A03L | 5LP:A07L | 5LP:A01X1 | 8 SP:A05S |
| | | | | | |
| | 1 July TUE | BR1 | BR2 | BR3 | Mercury |
| TA | 08:30-09:20 | PL1 | | | |
| | 09:20-09:30 | Moving | | | |
| TB | 09:30-11:10 | 4LP:A04L | 4LP:A10L | 4LP:A01L | 4LP:A05L |
| | 11:10-11:30 | Coffee | | | |
| TC | 11:30-12:30 | 4SP:A04S | 4SP:A04S | 4SP:A03S | 4SP:A11S |
| | 12:30-14:00 | Lunch | | | |
| TD | 14:00-14:40 | SmPL1 | SmPL2 | | |
| | 14:40-14:50 | Moving | | | |
| TE | 14:50-15:50 | 4SP:A02S | 3SP:A07S | 4SP:A07S | 4SP:A12S |
| | 15:50-16:10 | Coffee | | | |
| TF | 16:10-18:15 | 5LP:A02L | 5LP:A07L | 6LP:A06X1 | 6SP:1LP:A06S/A07S |
| | | | | | |
| | 2 July WED | BR1 | BR2 | BR3 | Mercury |
| WA | 08:20-09:20 | PL2 | | | |
| | 09:20-09:30 | Moving | | | |
| WB | 09:30-11:10 | 4LP:A11L | 4LP:A07L | 4LP:A12L | 1LP3SP:A08X1 |
| | 11:10-11:30 | Coffee | | | |
| WC | 11:30-12:30 | 4SP:A04X2 | 4SP:A07S | 4SP:A12S | 4SP:A10S |
| | 12:30-14:00 | Lunch | | | |
| WD | 14:00-14:40 | SmPL3 | SmPL4 | | |
| | 14:40-14:50 | Moving | | | |
| WE | 14:50-15:50 | 4SP:A04X2 | 4SP:A08S | 4SP:A12S | 4SP:A10S |
| | 15:50-16:10 | Coffee | | | |
| WF | 16:10-18:15 | 5LP:A10X2 | 5LP:A11X1 | 6LP:A05X1 | 4SP:A08X1 |

Technical Program

| <i>Paper ID</i> | <i>Session</i> | <i>Paper Title</i> | <i>Authors</i> |
|-----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ID-000000 | MA | Computing with words | L. Zadeh |
| ID-000303 | MB1 | A Discrete-Time Portfolio Selection with Uncertainty of Stock Prices | Yuji Yoshida, Masami Yasuda, Jun-ichi Nakagami, Masami Kurano |
| ID-000651 | MB1 | A Fuzzy Approach to Stochastic Dominance of Random Variables | Bart De Schuymer, Hans De Meyer, Bernard De Baets |
| ID-000695 | MB1 | Extracting Strict Orders from Fuzzy Preference Relations | Koen Maes, Bernard De Baets |
| ID-001382 | MB1 | T-Ferrers Relations versus T-Borders | Susana Díaz, Bernard De Baets, Susana Montes |
| ID-000796 | MB2 | On-line Design of Takagi-Sugeno Models | Plamen Angelov, Dimitar Filev |
| ID-000808 | MB2 | Gradient Projection Method and Equality Index in Recurrent Neural Fuzzy Network | Rosangela Ballini, Fernando Gomide |
| ID-000943 | MB2 | Experimental analysis of sensory measurement imperfection impact for a cheese ripening fuzzy model | Irina Ioannou, Nathalie Perrot, Gilles Mauris, Gilles Trystram |
| ID-000965 | MB2 | Generation of Fuzzy Membership Function Using Information Theory Measures and Genetic Algorithm | Masoud Makrehchi, Otman Basir, Mohamed Kamel |
| ID-000640 | MB3 | About Zf, the Set of Fuzzy Relative Integers, and the Definition of Fuzzy Bags on Zf | Daniel Rocacher, Patrick Bosc |
| ID-001573 | MB3 | Crisp Bags, One Dimensional Fuzzy Bags, Multi-Dimensional Fuzzy Bags: Comparing successful and unsuccessful User's Web Behavior | George Meghabghab |
| ID-001607 | MB3 | A Discussion of Indices for the Evaluation of Fuzzy Associations in Relational Databases | Didier Dubois, Henri Prade, Thomas Sudkamp |
| ID-002103 | MB3 | On A Characterization of Fuzzy Bags | Miguel Delgado, María J. Martín-Bautista, Daniel Sánchez, María A. Vila |
| ID-000516 | MB4 | Fuzzy Models of Rainfall-Discharge Dynamics | Hilde Vernieuwe, Olga Georgieva, Bernard De Baets, Valentijn Pauwels, Niko Verhoest |
| ID-001135 | MB4 | Imprecise modelling using gradual rules | Sylvie Galichet, Didier Dubois, Henri Prade |
| ID-001225 | MB4 | Clustering Hybrid Data | Abdelhamid Bouchachia, Witold Pedrycz |
| ID-001304 | MB4 | A comparative study of classifiers on a real data set | Sofia Visa, Anca Ralescu |
| ID-000055 | MC1 | An Axiomatic Characterization of Fuzzy Decision Rules Based on Difference of Votes | José Luis García-Lapresta, Bonifacio Llamazares |
| ID-000077 | MC1 | Innovative Criteria for Input Selection | Madasu Hanmandlu, Mohd Fazle Azeem, Vamsi Krishna Madasu |
| ID-000314 | MC1 | The Lexicographic Ranking Function Method for Ordering Fuzzy Quantities | Hassan Mishmast Nehi, Hamid Reza Maleki, Mashaallah Mashinchi |
| ID-000370 | MC1 | Fuzzy Multiple Objective System for Supplier Selection | Mohammad Hossein Fazel Zarandi, Ismail Burhan Türksen, Soroosh Saghiri |
| ID-000831 | MC2 | A rationale for using soft clustering for funds management style analyses | Asjad Yaha, Paul Lajbcygier |
| ID-001854 | MC2 | Crisp and Fuzzy Regime-Switching Models for Exchange Rates of the Slovak Crown to Euro | Jozef Komornik, Magda Komornikova, Jana Mesiarova |
| ID-002079 | MC2 | Newspaper Replacement Prediction Model Based on Fuzzy Clustering and Rules | Giselle Cardoso, Fernando Gomide |
| ID-000202 | MC2 | Rule Creation of Fuzzy System by Reasoning Variations | Michiharu Maeda, Mikio Oda, Hiromi Miyajima |
| ID-000381 | MC3 | Algebras with fuzzy equalities | Radim Belohlavek, Vilem Vychodil |
| ID-000459 | MC3 | Possibility versus probability: falling shadows versus falling integrals | Christer Carlsson, Robert Fullér, Péter Majlender |
| ID-000572 | MC3 | Automatic Complexity control for System Identification | Ali Ghodsi, Dale Schuurmans |
| ID-002136 | MC3 | On the structure of involutive and non-involutive negations | Ildar Batyrshin |
| ID-000088 | MC4 | Fuzzy Clustering Model For Surface Finish Prediction In Fine Turning Process | Mohammed T. Hayajneh, Montasser S. Tahat, Rebhi A. Damseh |
| ID-000101 | MC4 | Short Term Prediction of Highway Travel Time Using Data Mining and Neuro-Fuzzy Methods | David Coufal, Esko Turunen |
| ID-000763 | MC4 | Soft Attribute Selection for Hierarchical Clustering in High Dimensions | Manolis Wallace, Stefanos Kollias |
| ID-000909 | MC4 | Min-square fitting of fuzzy curves | Carles Garriga-Berga |

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|-----------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| ID-000347 | MD1 | Cumulative Measure Based Classifier in the Lukasiewicz Algebra - Part I | Kalle Saastamoinen, Pasi Luukka, Sandra Louro |
| ID-001944 | MD1 | Classifying Image Pixels by a Neuro-Fuzzy Approach | Ciro Castiello, Giovanna Castellano, Laura Caponetti, Anna Maria Fanelli |
| ID-002215 | MD1 | Classification of High Dimensional Data with Arithmetic, Geometric and Harmonic Fuzzy Similarity | Pasi Luukka, Kalle Saastamoinen, Sandra Louro |
| ID-000718 | MD2 | Level Control by Immune Algorithm Based Fuzzy Membership Function Tuning | Dong Hwa Kim |
| ID-000729 | MD2 | Intelligent Pid Control By Immune Algorithms Based Fuzzy Rule Auto-Tuning | Dong Hwa Kim |
| ID-000853 | MD2 | A Mamdani-Assilian Controller for the Last Phase of an Operation Switch on a Distillation Unit | Ester Van Broekhoven, Eveline Volcke, Olga Georgieva, Bernard De Baets |
| ID-002574 | MD3 | Relations between mathematical properties of fuzzy measures | Kenta Uchino, Toshiaki Murofushi |
| ID-002798 | MD3 | Fuzzy Logical Varieties As Models Of Thinking, Emotions, And Will | Mark Burgin, Alexander Rybalov |
| ID-002877 | MD3 | The Hamming distance between intuitionistic fuzzy sets | Przemyslaw Grzegorzewski |
| ID-003227 | MD4 | How Can We Describe A Cluster | V Niskanen |
| ID-003238 | MD4 | On Logic of Some t-norms Based Modifiers | J Mattila |
| ID-003249 | MD4 | Some Compositional Modifier Operators Generate L-Interior Operators | J Kortelainen |
| ID-001933 | ME1 | Neuro-Fuzzy Decision System for Irrigation Management | Hani Sewilam, Heribert Nacken |
| ID-000583 | ME1 | Fuzzy Clustering Model For Monitoring Hole Quality In Drilling Process | Montasser Tahat, Mohammed Hayajneh |
| ID-001786 | ME1 | Identification and Detection of Embolic Doppler Signals Using DWT and Fuzzy Logic | Nizamettin Aydin |
| ID-001078 | ME1 | Adaptive Neuro-Fuzzy Inference System For Traffic Cycle Optimization | Wael Awad, Salem Al-Agtash, Atef Nsour |
| ID-001146 | ME2 | Support Vector Machines as Zero Order and First Order Adaptive Fuzzy Inference Systems and Their Applications on System Identification | Aysegül Uçar, Yakup Demir, Cüneyt Güzelis |
| ID-000954 | ME2 | Evolution of Fuzzy Controllers with Multi-chromosomal Representation of Membership Functions | Markus Spitzlinger, Helmut Mayer |
| ID-001360 | ME2 | The Eigenvalue Placement Of An Lq Optimal System Using Ga | N Mansouri, M Fathi |
| ID-001258 | ME2 | An Application of Fuzzy Logic on Noise Reduction Department of Computer Science, University of Kocaeli 41440 Kocaeli, Turkey Department of Electrical Eng. University of Kocaeli 41440 Kocaeli, Turkey | Nevcihan Duru, Tarik Duru, Engin Demiray |
| ID-003384 | ME3 | Constructing reciprocal and stable aggregation operators | Jose Luis Garcia Lapresta, Ricardo Alberto Marques Pereira |
| ID-002147 | ME3 | Fuzzy equivalence in a natural interpretation | Mamoru Shimoda |
| ID-002888 | ME3 | E-Z OWA Weights | Ronald Yager |
| ID-000561 | ME3 | Controlling Selectivity and Consensus In Implication-Based Interpolation | Thomas Whalen |
| ID-001180 | ME4 | Decision Trees and Qualitative Inference for Intrusion Detection Systems | Nahla Ben Amor, Salem Benferhat, Zied Elouedi, Cuppens Fred |
| ID-002608 | ME4 | A k-Means Like Algorithm for Clustering Categorical Data | Ohn Mar San, Van Nam Huynh, Yoshiteru Nakamori |
| ID-001416 | ME4 | LOCALM-FSM: A New Fuzzy System Modeling Approach Using a Two-Step Fuzzy Inference Mechanism Based on Local Fuzziness Level Selection | Ozge Uncu, I. Burhan Turksen, Kemal Kilic |
| ID-001797 | ME4 | To be or not to be: The fuzzy nature of data mining | Z Chen |
| ID-000224 | MF1 | Fuzzifying the thoughts of animats | Iztok Lebar Bajec, Nikolaj Zimic, Miha Mraz |
| ID-000921 | MF1 | Inequalities in Fuzzy Probability Calculus | Saskia Janssens, Bernard De Baets, Hans De Meyer |
| ID-000460 | MF1 | Approximating Fuzzy Control Strategies via CRI | Siegfried Gottwald, Vilem Novak, Irina Perfilieva |
| ID-001191 | MF1 | Uncertainty in Noise Mapping: Comparing a Probabilistic and a Fuzzy Set Approach | Tom De Muer, Dick Botteldooren |
| ID-000932 | MF1 | Fuzziness and Uncertainty Within the Framework of Context Model | Van Nam Huynh, Mina Ryoke, Yoshiteru Nakamori, Tu Bao Ho |
| ID-000156 | MF2 | Design and Simulation a Fuzzy Substrate Feeding Controller for an Industrial Scale Fed-Batch Baker Yeast Fermentor | Cihan Karakuzu, Sitki Öztürk, Mustafa Türker |
| ID-000730 | MF2 | Intelligent Pid Control By Immune Algorithms Based Fuzzy | Dong Hwa Kim |

| Rule Auto-Tuning | | | |
|------------------|-----|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ID-001359 | MF2 | Improvement of second order sliding-mode controller applied to position control of induction motors using fuzzy logic | Mahdi Jalili Kharaajoo, Hassan Ebrahimirad |
| ID-000246 | MF2 | Fuzzy supervisor for combining Sliding Mode control and Hinfity Control | Najib Essounbouli, Abdelaziz Hamzaoui, Nouredine Manamanni |
| ID-000099 | MF2 | Embedded Fuzzy Control System in an Open Computerized Numerical Control. A Technology Transfer Case-Study | R.E. Haber Guerra, J.R. Alique, A. Alique, J. Aranceta, J. Hernandez, S. Ros |
| ID-002765 | MF3 | Modelling fuzzy quantified statements under a voting model interpretation of fuzzy sets | Félix Díaz Hermida, Alberto Bugarín Diz, Purificación Cariñena Amigo, Manuel Mucientes Molina, Senén Barro Ameneiro |
| ID-002417 | MF3 | Modeling the concept of fuzzy majority opinion | Gabriella Pasi, Ronald R. Yager |
| ID-002125 | MF3 | A new proposal of aggregation functions: the linguistic summary | Ignacio Blanco, Daniel Sánchez, José M. Serrano, María A. Vila |
| ID-002394 | MF3 | Fuzzy Quantifiers, Multiple Variable Binding and Branching Quantification | Ingo Glöckner |
| ID-003418 | MF3 | IC-Bags and Decision Analysis | Kankana Ch akrabarty |
| ID-003137 | MF4 | Hierarchical Fuzzy Modeling | Alex Chong, Tom Gedeon, Lazlo Koczy |
| ID-002721 | MF4 | A feature selection algorithm with fuzzy information | Antonio Arauzo, Juan Luis Castro, Jose Manuel Benítez |
| ID-002709 | MF4 | Efficient Extraction of Rules with Hierarchical Granulation Structure Using Rough Sets | Chul-Heui Lee, Seon-Hak Seo |
| ID-003104 | MF4 | Application of Neuro-Fuzzy systems in estimating the response of sediment-filled valleys | Iman Karimi |
| ID-002620 | MF4 | Second-order Takagi-Sugeno Model to Identify Sea Water Optically Active Constituent Concentrations from Meris Data | Marco Cococcioni, Beatrice Lazzarini, Francesco Marcelloni |
| ID-002642 | MF4 | Relational Clustering Starting from Non-Euclidean Dissimilarity Relations | Paolo Corsini, Laura De Dosso, Beatrice Lazzarini, Francesco Marcelloni |
| ID-002743 | MF4 | Fuzzy rank correlation between fuzzy numbers | Pierre-Alexandre Hébert, Mylène Masson, Thierry Denoeux |
| ID-002866 | MF4 | Linear regression analysis for fuzzy data | Przemyslaw Grzegorzewski, Edyta Mrowka |
| ID-000001 | TA | Philosophical Grounding of Fuzzy Theory | I. B. Türksen |
| ID-001584 | TB1 | Sugeno integrals for the modelling of noise annoyance aggregation | Andy Verkeyn, Dick Botteldooren, Bernard De Baets, Guy De Tré |
| ID-000167 | TB1 | A Rule-based Method to Aggregate Criteria with Different Relevance | Gerardo Canfora, Luigi Troiano |
| ID-001843 | TB1 | On Separability of Intuitionistic Fuzzy Sets | Krassimir Atanassov, Janusz Kacprzyk, Eulalia Szmidt, Ljudmila Todorova |
| ID-001977 | TB1 | Calculating Limit Decisions in Factoring Using a Fuzzy Decision Model Based on Interactions between Goals | Rudolf Felix |
| ID-001102 | TB2 | Evolutionary Optimization of Fuzzy Models with Asymmetric RBF Membership Functions using Simplified Fitness Sharing | Mir-Soeng Kim, Sang-Keon Oh, Ju-Jang Lee |
| ID-000998 | TB2 | Analyzing the Performance of a Multiobjective GA-P Algorithm for Learning Fuzzy Queries in a Machine Learning Environment | Oscar Cordón, Félix Moya, Carmen Zarco |
| ID-001045 | TB2 | Commutativity as Prior Knowledge in Fuzzy Modeling | Pablo Carmona, Juan Luis Castro, José Manuel Zurita |
| ID-001629 | TB2 | Fuzzy Multi-Objective Optimization Approach for Rod Shape Design in Long Product Rolling | Victor Oduguwa, Rajkumar Roy, Didier Farrugia |
| ID-000279 | TB3 | A Fuzziness Measure of Rough Sets | Hsuan-Shih Lee |
| ID-000044 | TB3 | Trapezoidal approximation of fuzzy numbers | Przemyslaw Grzegorzewski, Edyta Mrowka |
| ID-000392 | TB3 | Fuzzy closure operators induced by similarity | Radim Belohlavek |
| ID-001630 | TB3 | On the Transitivity of Fuzzy Indifference Relations | Susana Díaz, Bernard De Baets, Susana Montes |
| ID-002428 | TB4 | A Note on Quality Measures for Fuzzy Association Rules | Didier Dubois, Eyke Hüllermeier, Henri Prade |
| ID-002833 | TB4 | Differentiated treatment of missing values in Fuzzy Clustering | Heiko Timm, Christian Döring, Rudolf Kruse |
| ID-001090 | TB4 | Fuzzy clustering in classification using weighted features | Lourenço P.C. Bandeira, João M. C. Sousa, Uzay Kaymak |
| ID-001236 | TB4 | Data and cluster weighting in target selection based on fuzzy clustering | Uzay Kaymak |
| ID-003058 | TC1 | Providing elucidations of web site evaluation based on a multi-criteria aggregation with the Choquet integral | Gulcin Buyukozkan, Gilles Mauris, Orhan Feyzioglu, Lamia Berrah |

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| ID-002260 | TC1 | DEA Efficiency and Its Application to Rule Induction | Hideo Tanaka |
| ID-003362 | TC1 | Duality in fuzzy linear programming based on fuzzy relations | Jaroslav Ramik |
| ID-000325 | TC1 | Representation of the Different Approaches to Computer-Assisted Diagnosis of Oral Mucosa Lesions Based on a General Scheme | Tatiana Kiseliova, Hajo Peters |
| IF-003441 | TC3 | Optimal Aggregation of Distributed Evidence | Dan Ralescu |
| ID-000112 | TC3 | Uncertain Reasoning and Beliefs | Eugene Roventa, Tiberiu Spiricu |
| ID-002383 | TC3 | Aggregation of T-transitive Relations using OWA Operators | Joan Jacas, Jordi Recasens |
| ID-002204 | TC3 | A Note on Modeling and Risk Analysis of Behavior of Uncertain Systems using Fuzzy Metrics | Yasunori Endo, Kazuo Horiuchi |
| ID-003306 | TC4 | Bluff Strategy in Seven-card-Stud Poker Game | Chiharu Takahashi, Takehisa Onisawa |
| ID-000785 | TC4 | Three Fuzzy Sets-based Heuristic Approaches for solving Optimisation Problems | David A. Pelta, Alejandro Sancho-Royo, Jose-Luis Verdegay |
| ID-002091 | TC4 | A Neuro-Fuzzy Approach To Partially Observable Markov Decision Problems | M.Toygar Karadeniz, H.Levent Akin |
| ID-000002 | TD1 | Binary Operations in Fuzzy Set Theory: Recent Advances | J. Fodor |
| ID-000003 | TD2 | Multiple Criteria Choice, Ranking and Sorting in the Presence of Ordinal Data and Interactive Points of View | M. Roubens |
| ID-001753 | TE1 | A Note on the Structure of n-Contractive t-Norms | Andrea Mesiarova |
| ID-001438 | TE1 | On Unification of L-fuzzy Covering Axioms | Halis Aygün |
| ID-000639 | TE1 | A Model For Fuzzy Plane Projective Geometry | Mahdieh Tahami, Yosof Bahrampour, Mashallah Mashinchi |
| ID-002169 | TE1 | Fuzzy Optimization Problems Concerning Fuzzy Differential Equations with Infinite Constraints | Seiji Saito, Hiroaki Ishii |
| ID-000033 | TE2 | Controlling the Spillway Gates of Dams Using Fuzzy Logic Controller Designed by Modified Tabu Search Algorithm | Aytekin Bagis, Dervis Karaboga |
| ID-003261 | TE2 | An Overview on Soft Computing in Behavior Based Robotics | Frank Hoffmann |
| ID-000617 | TE2 | Cii-Based Defuzzification Circuit For Fuzzy Logic Controllers | Mahmut Tokmakçi, Mustafa Alçi, Esmâ Uzun |
| ID-001461 | TE3 | Design of a fuzzy logic based power system stabilizer with Matlab Simulink and Fuzzy Logic Toolbox | Devinder Kaur, Xingkang Wang |
| ID-001427 | TE3 | Terrain-Based Navigation using Rule-Based Traversability Indices | Homayoun Seraji |
| ID-001911 | TE3 | Intelligent Soft Driving System Cooperating with Human | Seiji Yasunobu, Masaki Inoue |
| ID-001449 | TE3 | Control of 3-DOF Industrial Robot Manipulator Using Fuzzy Logic | Ugur Yüzgeç, Mustafa Nil, Murat Sönmez, Bekir Çakır |
| ID-002956 | TE4 | Comparison of Cp, Cpk and Cp-tilde process capability indices in the case of Measurement Error Occurrence | Bahram Sadeghpour-Gildeh |
| ID-003092 | TE4 | Interval valued fuzzy linear programming based on level lambda fuzzy number | Esmail Yazdani peraei, H.R Maleki, M. Mashinchi |
| ID-002899 | TE4 | An Interactive Fuzzy Satisficing Method for Fuzzy Random Multiobjective Linear Programming Problems Based on the Probability Maximization Model Using a Possibility Measure | Hideki Katagiri, Masatoshi Sakawa, Kosuke Kato, Syuuji Ohsaki |
| ID-001595 | TF1 | Formulas of Lukasiewicz's Logic Represented by Hyperplanes | A Di Nola, A Lettieri |
| ID-001056 | TF1 | Axiomatization of any residuated fuzzy logic defined by a continuous t-norm | Francesc Esteva, Lluís Godo, Franco Montagna |
| ID-000011 | TF1 | Arithmetic Of Fuzzy Quantities Based On Vague Arithmetic Operations | Mustafa Demirci |
| ID-000707 | TF1 | Level-Sets as Decomposition of the Topological Space SpecA | Paavo Kukkurainen |
| ID-001157 | TF1 | Extension of Lukasiewicz Logic by Product Connective | Rostislav Horcik, Petr Cintula |
| ID-001270 | TF2 | Fuzzy Adaptive Sliding Mode Control for a Class of Uncertain Nonlinear MIMO Systems with Application to a 2DOF Twin Propeller | Aria Alasty, Hamid Bolandhemat, Navid Dadkhah Tehrani |
| ID-002787 | TF2 | A Fuzzy Logic Vision and Control System Embedded with Human Knowledge for Autonomous Vehicle Navigation | Charles Kinney, Dean Edwards |
| ID-001641 | TF2 | Hybrid Electric vehicles: application of fuzzy clustering for designing a TSK-based fuzzy energy flow management unit | Lucio Ippolito, Pierluigi Siano |
| ID-002844 | TF2 | Fuzzy logic based dynamic localization and map updating for mobile robots | Mohammad Molhim, Kudret Demirli |
| ID-001023 | TF2 | System Modelling Using Fuzzy Numbers | Petr Husek, Renata Pytelkova |
| ID-003171 | TF3 | Using Similarity Measures for Histogram Comparison | Dietrich Van der Weken, Mike Nachtgeael, |

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|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| | | | Etienne Kerre |
| ID-003328 | TF3 | A Method for Coding/Decoding Images by Using Fuzzy Relation Equations | Ferdinando Di Martino, Vincenzo Loia, Salvatore Sessa |
| ID-003216 | TF3 | Non-uniform Coders Design for Motion Compression Method by Fuzzy Relational Equations | Hajime Nobuhara, Kaoru Hirota |
| ID-003182 | TF3 | A CHC Evolutionary Algorithm for 3D Image Registration | O. Cordon, S. Damas, J. Santamaria |
| ID-003205 | TF3 | Lattice Fuzzy Signal Operators and Generalized Image Gradients | Petros Maragos, Vassilis Tzouvaras, Giorgos Stamou |
| ID-003193 | TF3 | Color Image Enhancement using the Support Fuzzification | Vasile Patrascu |
| ID-001067 | TF4 | A New Approach to Teaching Fuzzy Logic System Design | Emine Inelmen, Erol Inelmen, Ahmad Ibrahim |
| ID-002596 | TF4 | Feature selection using an ambiguity measure based on fuzzy OR-2 operators | Dahbia Semani, Carl Frélicot |
| ID-002686 | TF4 | Adaptive Contrast Enhancement Based on the Fuzzy Histogram of the Image | Ioannis Vlachos, George Sergiadis |
| ID-002518 | TF4 | Dust Recognition by Twescale Variance Analysis and Graded Information Fusion | Jens Christian Claussen, Mathias Schlüter, Uwe-Jens Krabbenhöft |
| ID-003430 | TF4 | Quantified Solution of the Inverse Dynamics Problem by Use of Classification Algorithm | Gancho Vachkov, Yuhiko Kiyota, Koji Komatsu |
| ID-000886 | TF4 | The Adaptive H _∞ ; Tracking of Nonlinear Systems Using T-S Fuzzy Controller | Yuanlong Yu, Huaping Liu, Kezhong He |
| ID-003452 | TF4 | Fuzzy Image Processing in Sun Sensor | Sohrab Mobasser, Carl Christien Liebe, Ayanna Howard |
| ID-00000P | WA | Fuzzy sets and systems research: current trends and prospects | D. Dubois |
| ID-001168 | WB1 | Making Fuzzy Absolute and Fuzzy Relative Orders of Magnitude Consistent | Didier Dubois, Allel HadjAli, Henri Prade |
| ID-000820 | WB1 | Inducing Fuzzy Concepts through Extended Version Space Learning | Eyke Hüllermeier |
| ID-001179 | WB1 | Learning first order fuzzy logic rules | Henri Prade, Gilles Richard, Mathieu Serrurier |
| ID-001089 | WB1 | A symbolic Approximate Reasoning under Fuzziness | Mazen El-Sayed, Daniel Pacholczyk |
| ID-000123 | WB2 | An Analytical Approach for the Study of the Accuracy of Mamdani Type Fuzzy Controllers with respect to different Inference Methods in Practice | Anis Sakly, Mohamed Benrejeb |
| ID-001371 | WB2 | Design And Stability Of An Indirect Adaptive Fuzzy Sliding Mode Controller Of Reduced Complexity | Hanène Medhaffar, Tarak Damak, Nabil Derbel |
| ID-001001 | WB2 | Implementation and Applications of a Constrained Multi-Objective Optimization Method | Hossein S. Zadeh |
| ID-001821 | WB2 | Fuzzy Control in Multi-Component Energetic Systems | Tibor Tari, Sándor Könczöl, László T. Kóczy, Antal Penninger |
| ID-001124 | WB3 | A Study on Fuzzy Random Programming Models Based on Possibility and Necessity Measures | Hideki Katagiri, Masatoshi Sakawa |
| ID-000257 | WB3 | An Interactive Fuzzy Satisficing Method for Nonlinear Integer Programming Problems through Genetic Algorithms with Double Strings | Masatoshi Sakawa, Kosuke Kato |
| ID-000662 | WB3 | A Global Optimization Method for Solving Fuzzy Relation Equations | S. Ilker Birbil, Orhan Feyzioglu |
| ID-002068 | WB4 | Flexible Queries involving Aggregate Operators Addressed to Regular Relational Databases | Bosc Patrick, Lietard Ludovic |
| ID-002754 | WB4 | On Similarity Measures for Concept-based Querying | Rasmus Knappe, Henrik Bulskov, Troels Andreasen |
| ID-000976 | WB4 | Asymmetric Redundancy of Tuples in Fuzzy Relational Database | Rolly Intan, Masao Mukaidono |
| ID-002664 | WB4 | Modeling Preferences in Fuzzy Queries by tuning the Evaluation Function of Selection Conditions | Gloria Bordogna, Gabriella Pasi |
| ID-002653 | WC1 | A genetic algorithm for the identification of fuzzy measures from data sample | Elias F. Combarro, Pedro Miranda |
| ID-002732 | WC1 | Recursive OWA | Luigi Troiano, Gerardo Canfora |
| ID-001618 | WC1 | Dominance of fuzzy measures by k-additive belief functions | Pedro Miranda, Michel Grabisch, Pedro Gil |
| ID-001517 | WC1 | Universal Fuzzy Measures | Radko Mesiar, Lubica Valaskova |
| ID-002541 | WC2 | Fuzzy Logic Control of a Welding Machine Using Phase-Shift Pulse-Width Modulation Technique | Ires Iskender |
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