

International Conference on Fuzzy Systems

(FUZZ 2010)

**Barcelona, Spain
18 – 23 July 2010**

Pages 1 - 829



**IEEE Catalog Number: CFP10FUZ-PRT
ISBN: 978-1-4244-6919-2**

TABLE OF CONTENTS

A BAYESIAN GAME BASED ADAPTIVE FUZZY CONTROLLER FOR MULTIAGENT POMDPS (F-0090)	1
<i>Rajneesh Sharma Matthijs, T. J. Spaan</i>	
A CATEGORY-BASED INFORMATION FILTERING APPROACH BASED ON INTERVAL TYPE 2 FUZZY SETS (F-0571)	8
<i>Francisco P. Romero, Jesus Serrano-Guerrero, Jose A. Olivas, Andres Soto</i>	
A CHARACTERIZATION OF ORDINAL SUMS BEING T-NORMS ON BOUNDED LATTICES BY ORDINAL SUMS OF DRASTIC T-NORMS (F-0596)	15
<i>Jesus Medina</i>	
A COMPREHENSIVE APPROACH TOWARDS EXTRA-CORPORAL CIRCULATION CONTROL USING FUZZY LOGIC (F-0359)	20
<i>Benedikt Baumgartner, Alejandro Mendoza, Ulrich Schreiber, Stefan Eichhorn, Markus Krane, Robert Bauernschmitt, Alois Knoll</i>	
A COMPREHENSIVE COMPARISON OF TIME SERIES DESCRIBED BY LINGUISTIC SUMMARIES AND ITS APPLICATION TO THE COMPARISON OF PERFORMANCE OF A MUTUAL FUND AND ITS BENCHMARK (F-0580)	25
<i>Janusz Kacprzyk, Anna Wilbik</i>	
A COMPUTATIONAL DEFINITION OF AGGREGATION RULES (F-0602)	33
<i>J. Tinguaro Rodriguez, Victoria Lopez, Daniel Gomez, Begona Vitoriano, Javier Montero</i>	
A DATABASE PREFERENCE QUERY MODEL BASED ON A FUZZY OUTRANKING RELATION (F-0017)	38
<i>Patrick Bosc, Olivier Pivert, Gregory Smits</i>	
A DESIGN ENVIRONMENT FOR SYNTHESIS OF EMBEDDED FUZZY CONTROLLERS ON FPGAS (F-0545)	44
<i>Santiago Sanchez-Solano, Ernesto del Toro, Maria Brox, Iluminada Baturone, Angel Barriga</i>	
A DESIGN OF GENETICALLY ORIENTED LINGUISTIC MODEL WITH THE AID OF FUZZY GRANULATION (F-0379)	52
<i>Keun-Chang Kwak, Witold Pedrycz</i>	
A FAST IRIS LOCATION BASED ON AGGREGATING GRADIENT APPROXIMATION USING QMAOWA OPERATOR (F-0601)	58
<i>Yuniol Alvarez-Betancourt, Miguel Garcia-Silvente</i>	
A FORMAL METHODOLOGY FOR THE ANALYSIS AND DESIGN OF NONLINEAR FUZZY CONTROL SYSTEMS (F-0280)	66
<i>Jose Manuel Andujar-Marquez, Antonio Javier Barragan-Pina</i>	
A FOURIER SERIES-BASED ADAPTIVE SLIDING-MODE CONTROLLER FOR NONLINEAR PNEUMATIC SERVO SYSTEMS (F-0060)	75
<i>Lian-Wang Lee, I-Hsum Li</i>	
A FRAMEWORK FOR FUZZY VIDEO CONTENT EXTRACTION, STORAGE AND RETRIEVAL (F-0210)	80
<i>Murat Koyuncu, Turgay Yilmaz, Yakup Yildirim, Adnan Yazici</i>	
A FUZZY APPROACH FOR RETRIEVING IMAGES IN DATABASES USING DOMINANT COLOR AND TEXTURE DESCRIPTORS (F-0605)	88
<i>Jesus Chamorro-Martinez, Pedro Manuel Martinez-Jimenez, Jose Manuel Soto-Hidalgo</i>	
A FUZZY ART2 MODEL FOR FINDING ASSOCIATION RULES IN MEDICAL DATA (F-0229)	95
<i>Yo-Ping Huang, Thi Thanh Hoa Vu, Jung-Shian Jau, Frode Eika Sandnes</i>	
A FUZZY BASED HIERARCHICAL COORDINATION AND CONTROL SYSTEM FOR A ROBOTIC AGENT TEAM IN THE ROBOT HOCKEY COMPETITION (F-0029)	101
<i>Hani Hagrass, Rabie Ramadan, Moustafa Nawito, Hala Gabr, Mina Zaher, Hussein Fahmy</i>	
A FUZZY BASED VERIFICATION AGENT FOR THE PERSIM HUMAN ACTIVITY SIMULATOR IN AMBIENT INTELLIGENT ENVIRONMENTS (F-0157)	109
<i>Amr Elfaham, Hani Hagrass, Sumi Helal, Shantonu Hossain, Jae Woong Lee, Diane Cook</i>	
A FUZZY CHOQUET INTEGRAL WITH AN INTERVAL TYPE-2 FUZZY NUMBER-VALUED INTEGRAND (F-0352)	117
<i>Timothy Havens, Derek T. Anderson, James Keller</i>	
A FUZZY CLASSIFICATION SYSTEM FOR PREDICTION OF THE RESULTS OF THE BASKETBALL GAMES (F-0486)	125
<i>Krzysztof Trawinski</i>	

A FUZZY COMPLEMENTARY CRITERION FOR STRUCTURE LEARNING OF A NEURO-FUZZY CLASSIFIER (F-0429)	132
<i>Nikolaos Mitrakis, Serafeim Moustakidis, John Theocharis</i>	
A FUZZY FILTER FOR THE REMOVAL OF RANDOM IMPULSE NOISE IN COLOUR VIDEO (F-0277)	140
<i>Tom Melange, Nachtegael Mike, Kerre Etienne</i>	
A FUZZY INFERENCE SYSTEM APPLIED TO DEFECT DETECTION IN FLAT STEEL PRODUCTION (F-0248)	148
<i>Alice Borselli, Valentina Colla, Marco Vannucci, Marco Veroli</i>	
A FUZZY MODEL OF THE MSCI EURO INDEX BASED ON CONTENT ANALYSIS OF EUROPEAN CENTRAL BANK STATEMENTS (F-0573)	154
<i>Viorel Milea, Rui Almeida, Uzay Kaymak, Flavius FrasinCAR</i>	
A FUZZY ONTOLOGY APPROACH TO REPRESENT USER PROFILES IN E-LEARNING ENVIRONMENTS (F-0556)	161
<i>Mateus Ferreira-Satler, Francisco P. Romero, Victor Menendez, Alfredo Zapata, Manuel Prieto</i>	
A FUZZY RECOGNITION-PRIMED DECISION MODEL-BASED CAUSAL ASSOCIATION MINING ALGORITHM FOR DETECTING ADVERSE DRUG REACTIONS IN POSTMARKETING SURVEILLANCE (F-0350)	169
<i>Yanqing Ji, Hao Ying, Peter Dews, Margo Farber, Ayman Mansour, John Tran, Richard Miller, Michael Massanari</i>	
A FUZZY SET FRAMEWORK FOR ONTOLOGICAL SIMILARITY MEASURES (F-0577)	177
<i>Valerie Cross, Xinran Yu</i>	
A FUZZY SYSTEM FOR DETECTION OF INCIPIENT FAULT IN POWER TRANSFORMERS BASED ON GAS-IN-OIL ANALYSIS (F-0052)	185
<i>Ronaldo Aquino, Milde Lira, Otoni Nobrega Neto, Aginaldo Silva, Viviane Asfora, Taciana Filgueiras, Heldemarcio Ferreira</i>	
A GENERALIZED FOUR-STEP INFERENCE METHOD FOR FUZZY QUANTIFIED AND TRUTH-QUALIFIED NATURAL LANGUAGE PROPOSITIONS (F-0067)	191
<i>Wataru Okamoto, Shun'ichi Tano, Atsushi Inoue, Ryosuke Fujioka</i>	
A GENETIC ALGORITHM FOR TUNING FUZZY RULE-BASED CLASSIFICATION SYSTEMS WITH INTERVAL-VALUED FUZZY SETS (F-0326)	199
<i>Jose Antonio Sanz, Alberto Fernandez, Humberto Bustince, Francisco Herrera</i>	
A GENETIC LEARNING OF FUZZY RELATIONAL RULES (F-0209)	207
<i>Yoel Caises, Antonio Gonzalez, Enrique Leyva, Raul Perez</i>	
A GENETIC TYPE-2 FUZZY LOGIC SYSTEM FOR PATTERN RECOGNITION IN COMPUTER AIDED DETECTION SYSTEMS (F-0227)	215
<i>Rahil Hosseini, Jamshid Dehmeshki, Sarah Barman, Mahdi Mazinani, Salah Qanadli</i>	
A HARDWARE ARCHITECTURE PROPOSAL FOR THE ENHANCED KARNIK- MENDEL ALGORITHM BASED ON SEQUENTIAL ARITHMETIC OPERATORS (F-0384)	222
<i>Miguel Melgarejo, Karina Duran</i>	
A HETEROGENEOUS EVALUATION MODEL FOR ASSESSING SUSTAINABLE ENERGY: A BELGIAN CASE STUDY (F-0551)	227
<i>Macarena Espinilla, Da Ruan, Jun Liu, Luis Martinez</i>	
A HYBRID FUZZY DECENTRALIZED SLIDING MODE UNDER-ACTUATED CONTROL FOR AUTONOMOUS DYNAMIC BALANCE OF A RUNNING ELECTRICAL BICYCLE INCLUDING FRICTIONAL TORQUE AND MOTOR DYNAMICS AND IN THE PRESENCE OF HUGE UNCERTAINTY (F-0055)	235
<i>Chih-Lyang Hwang, Hsiu-Ming Wu, Ching-Long Shih</i>	
A KIND OF FUZZY WEIGHTS REPRESENTATION FOR INNER DEPENDENCE AHP (F-0347)	243
<i>Shin-ichi Ohnishi, Takahiro Yamanoi, Hideyuki Imai</i>	
A LESS CONSERVATIVE LMI CONDITION FOR STABILITY ANALYSIS OF CONTINUOUS-TIME TAKAGI-SUGENO FUZZY SYSTEMS VIA A NEW FUZZY LYAPUNOV FUNCTION (F-0081)	248
<i>Dong Hwan Lee, Jin Bae Park, Young Hoon Joo, Hyun Suk Jeong</i>	
A LOGICAL ANALYSIS OF MAMDANI-TYPE FUZZY INFERENCE, I THEORETICAL BASES (F-0497)	254
<i>Simone Bova, Pietro Codara, Daniele Maccari, Vincenzo Marra</i>	
A LOGICAL ANALYSIS OF MAMDANI-TYPE FUZZY INFERENCE, II. AN EXPERIMENT ON THE TECHNICAL ANALYSIS OF FINANCIAL MARKETS (F-0499)	262
<i>Simone Bova, Pietro Codara, Daniele Maccari, Vincenzo Marra</i>	

A METHODOLOGY TO GENERATE COMPACT AND ACCURATE FUZZY KNOWLEDGE BASES BASED ON FUZZY CLUSTERING AND EVOLUTIONARY SELECTION AND TUNING (F-0615)	270
<i>Ruth M. Toscano, Javier Aroba, Antonio Peregrin</i>	
A MULTI-OBJECTIVE EVOLUTIONARY ALGORITHM WITH AN INTERPRETABILITY IMPROVEMENT MECHANISM FOR LINGUISTIC FUZZY SYSTEMS WITH ADAPTIVE DEFUZZIFICATION (F-0613)	277
<i>Antonio A. Marquez Hernandez, Francisco A. Marquez Hernandez, Antonio Peregrin Rubio</i>	
A MULTISTAGE FUZZY DECISION APPROACH FOR MODELLING ADAPTIVE NEGOTIATION STRATEGIES (F-0351)	284
<i>Jan Richter, Matthias Klusch, Ryszard Kowalczyk</i>	
A NEW APPROACH FOR DEFINING A FUZZY COLOR SPACE (F-0626)	292
<i>Jose Manuel Soto-Hidalgo, Jesus Chamorro-Martinez, Daniel Sanchez</i>	
A NEW APPROACH FOR SEMI-SUPERVISED CLUSTERING BASED ON FUZZY C-MEANS (F-0358)	298
<i>Valmir Macario, Francisco de A. T. De Carvalho</i>	
A NEW APPROACH TO CLUSTERING USING EIGEN DECOMPOSITION (F-0050)	306
<i>Thomas Runkler, Florian Steinke</i>	
A NEW APPROACH TO DEALING WITH MISSING VALUES IN DATA-DRIVEN FUZZY MODELING (F-0576)	312
<i>Rui Jorge Almeida, Uzay Kaymak, Joao Sousa</i>	
A NEW FACTOR FOR COMPUTING THE RELEVANCE OF A DOCUMENT TO A QUERY (F-0400)	319
<i>Mohand Boughanem, Ihab Mallak, Henri Prade</i>	
A NEW FUZZY APPROACH TO BRAIN TUMOR SEGMENTATION (F-0473)	325
<i>Nelly Gordillo, Eduard Montseny, Pilar Sobrevilla</i>	
A NEW METHOD FOR FUZZY RULE INTERPOLATION BASED ON THE RATIO OF FUZZINESS OF INTERVAL TYPE-2 FUZZY SETS (F-0130)	333
<i>Shyi-Ming Chen, Yu-Chuan Chang</i>	
A NEW METHOD FOR WEIGHTED FUZZY INTERPOLATIVE REASONING BASED ON WEIGHTS-LEARNING TECHNIQUES (F-0129)	339
<i>Shyi-Ming Chen, Yu-Chuan Chang</i>	
A NOISE ROBUST VARIANT OF CONTEXT EXTRACTION FOR LOCAL FUSION (F-0346)	345
<i>Gyeongyong Heo, Paul Gader, Hichem Frigui</i>	
A NOVEL ALPHA-CUT REPRESENTATION FOR TYPE-2 FUZZY SETS (F-0232)	351
<i>Hussam Hamrawi, Simon Coupland, Robert John</i>	
A NOVEL DUAL-SURFACE TYPE-2 CONTROLLER FOR MICRO ROBOTS (F-0254)	359
<i>Phil Birkin, Jon Garibaldi</i>	
A NOVEL FUZZY BASED FRAMEWORK FOR DETECTION OF CLUSTERED MICROCALCIFICATION IN MAMMOGRAMS (F-0594)	367
<i>Farhang Sahba, Anastasios Venetsanopoulos</i>	
A PARAMETRIC CONVEX PROGRAMMING APPROACH APPLIED TO PORTFOLIO SELECTION PROBLEM WITH FUZZY COSTS (F-0420)	373
<i>Ricardo C. Silva, Jose L. Verdegay, Akebo Yamakami</i>	
A POSSIBILISTIC LOGIC VIEW OF PREFERENCE QUERIES TO AN UNCERTAIN DATABASE (F-0255)	379
<i>Patrick Bosc, Olivier Pivert, Henri Prade</i>	
A POSSIBILISTIC PROGRAMMING APPROACH FOR THE VEHICLE ROUTING PROBLEM WITH TIME WINDOWS (F-0294)	385
<i>Sezgin Kilic</i>	
A PRIORI KNOWLEDGE BASED PARTICLE FILTER FOR ESTIMATING 3-D POSE POSITION OF IMPLANTED KNEE (F-0505)	392
<i>Yusuke Nakajima, Syoji Kobashi, Yohei Tsumori, Nao Shibanuma, Fumiaki Imamura, Kei Kuramoto, Seturo Imawaki, Shinichi Yoshiya, Yutaka Hata, Kei Kuramoto, Seturo Imawaki, Shinichi Yoshiya, Yutaka Hata</i>	
A PROBABILISTIC FUZZY APPROACH FOR SENSOR LOCATION ESTIMATION IN WIRELESS SENSOR NETWORKS (F-0483)	399
<i>Mahnaz Kadkhoda, Mohammad Reza Akbarzadeh totounchi, Mohammad Hossein Yaghmaee, Zohreh Davarzani</i>	
A QUANTITATIVE COMPARISON OF INTERVAL TYPE-2 AND TYPE-1 FUZZY LOGIC SYSTEMS: FIRST RESULTS (F-0214)	404
<i>Jerry Mendel</i>	

A REINFORCEMENT LEARNING FUZZY CONTROLLER FOR THE BALL AND PLATE SYSTEM (F-0258)	412
<i>Nima Mohajerin, Mohammad Bagher Menhaj, Ali Doustmohammadi</i>	
A RELATIONAL DUAL OF THE FUZZY POSSIBILISTIC C-MEANS ALGORITHM (F-0509)	420
<i>Isaac Sledge, James Bezdek, Timothy Havens, James Keller</i>	
A SELF-SUFFICIENCY MODEL USING URGE SYSTEM (F-0433)	429
<i>Teruaki Ando, Masayoshi Kanoh</i>	
A SEMIOTIC APPROACH TO DATA IN MEDICAL DECISION MAKING (F-0448)	435
<i>Mila Kwiatkowska, Linda McMillan</i>	
A SIMILARITY-BASED CLUSTERING ALGORITHM FOR FUZZY DATA (F-0084)	443
<i>Wen-Liang Hung, Miin-Shen Yang</i>	
A SPEA2-BASED GENETIC-FUZZY MINING ALGORITHM (F-0434)	449
<i>Chun-Hao Chen, Tzung-Pei Hong, Vincent S. Tseng</i>	
A STRUCTURED APPROACH TO FUZZY ABDUCTION BASED ON CONTRAPOSITION PROPERTY OF PROPOSITIONAL LOGIC (F-0608)	454
<i>Aruna Chakraborty, Amit Konar, Atulya Nagar</i>	
A STUDY ON VERBALIZATION OF HUMAN BEHAVIORS IN A ROOM (F-0479)	462
<i>Ichiro Kobayashi, Mami Nouni, Atsuko Hiyama</i>	
A SYSTEM TO SUPERVISE BEHAVIORS USING TEMPORAL AND SENSOR INFORMATION (F-0537)	468
<i>Maria Ros, Miguel Delgado, Amparo Vila</i>	
A TAKAGI-SUGENO FUZZY-MODEL-BASED MODELING METHOD (F-0143)	476
<i>Ming-Ying Hsiao, Chi-Hua Liu, Shun-Hung Tsai, Kun-Lin Tsai, Chen Pei-Shin, Chen Ta-Tau</i>	
A TEXT-BASED FULLY AUTOMATED ARCHITECTURE FOR THE SEMANTIC ANNOTATION AND RETRIEVAL OF TURKISH NEWS VIDEOS (F-0119)	482
<i>Dilek Kucuk, Adnan Yazici</i>	
A THRESHOLD FOR MAJORITY IN THE CONTEXT OF AGGREGATING PARTIAL ORDER RELATIONS (F-0439)	490
<i>Michael Rademaker, Bernard De Baets</i>	
A TWO-PHASE FUZZY MINING APPROACH (F-0389)	494
<i>Chun-Wei Lin, Tzung-Pei Hong, Wen-Hsiang Lu</i>	
A TWO-STAGE PATTERN MATCHING METHOD FOR SPEAKER RECOGNITION OF PARTNER ROBOTS (F-0202)	499
<i>Jiangtao Cao, Naoyuki Kubota, Honghai Liu</i>	
A TYPE OF FUZZY INPUT-OUTPUT MODEL AND ITS PROPERTY (F-0306)	505
<i>Xiaojun Ban, Xiaozhi Gao, Xianlin Huang, Kairui Cao</i>	
A TYPE-2 FUZZY LOGIC BASED MODEL FOR RENEWABLE WIND ENERGY GENERATION (F-0322)	511
<i>Mina Zaher, Hani Hagrass, Amr Khairy, Mohamed Ibrahim</i>	
A TYPE-2 FUZZY PERSONAL ONTOLOGY FOR MEETING SCHEDULING SYSTEM (F-0054)	519
<i>Lee Chang-Shing, Wang Mei-Hui, Wu Min-Hsiang, Hsu Chin-Yuan, Lin Yi-Chen, Yen Shi-Jim</i>	
ACCURACY IMPROVEMENT OF GENETIC FUZZY RULE SELECTION WITH CANDIDATE RULE ADDITION AND MEMBERSHIP TUNING (F-0620)	527
<i>Yusuke Nojima, Yutaka Kaisho, Hisao Ishibuchi</i>	
ACHIEVING MEMETIC ADAPTABILITY BY MEANS OF FUZZY DECISION TREES (F-0368)	535
<i>Giovanni Acampora, Jose Manuel Cadenas, Vincenzo Loia, Enrique Munoz</i>	
ACQUISITION OF LOGICALITY IN LIVING NEURONAL NETWORKS AND ITS OPERATION TO FUZZY BIO-ROBOT SYSTEM (F-0530)	543
<i>Isao Hayashi, Megumi Kiyotoki, Ai Kiyohara, Minori Tokuda, Suguru N. Kudoh</i>	
ACQUISITION OF ROBOT CONTROL RULES BY EVOLVING MDDS (F-0249)	550
<i>Masashi Sakai, Yutaro Tomoto, Masayoshi Kanoh, Tsuyoshi Nakamura, Hidenori Itoh</i>	
ACTIVE SETS, FUZZY SETS AND INCONSISTENCY (F-0325)	557
<i>Germano Resconi, Christopher Hinde</i>	
ADAPTIVE FUZZY INTERPOLATION AND EXTRAPOLATION WITH MULTIPLE-ANTECEDENT RULES (F-0137)	565
<i>Longzhi Yang, Qiang Shen</i>	
ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM (ANFIS) IN MODELLING BREAST CANCER SURVIVAL (F-0270)	573
<i>Hazlina Hamdan, Jon Garibaldi</i>	
ADAPTIVE T-S FUZZY CONTROLLER DESIGN USING FUZZY APPROXIMATORS (F-0101)	581
<i>Hugang Han, Takamitsu Koshiro</i>	

ADAPTIVE TYPE-2 FUZZY SLIDING MODE CONTROL FOR CHAOS SYNCHRONIZATION OF UNCERTAIN CHAOTIC SYSTEMS (F-0414)	588
<i>Tsung-Chih Lin, Ming-Che Chen, Mehdi Roopaei, Bijan Ranjbar Sahraei</i>	
AGENT-BASED UNCERTAINTY LOGIC NETWORK (F-0501)	596
<i>Boris Kovalerchuk, Germano Resconi</i>	
AGGREGATION OF GROUP MEMBERS' OPINIONS BASED ON TWO PRINCIPLES (F-0142)	604
<i>Tomoe Entani, Masahiro Inuiguchi</i>	
AIRPLANE LEVEL CHANGES USING FUZZY CONTROL (F-0452)	610
<i>Agnaldo Lovato, Jose Carlos Oliveira</i>	
AN ADAPTIVE CLUSTER-TARGET COVARIANCE BASED PRINCIPAL COMPONENT ANALYSIS FOR INTERVAL-VALUED DATA (F-0062)	616
<i>Mika Sato-Ilic</i>	
AN ADAPTIVE FUZZY APPROACH FOR TEXTURE MODELLING (F-0574)	624
<i>Jesus Chamorro-Martinez, Pedro Manuel Martinez-Jimenez</i>	
AN ALGORITHM FOR RULE SELECTION ON FUZZY RULE-BASED SYSTEMS APPLIED TO THE TREATMENT OF DIABETICS AND DETECTION OF FRAUD IN ELECTRONIC PAYMENT (F-0223)	630
<i>Farida Benmakrouha, Christiane Hespel, Edouard Monnier</i>	
AN ANALYSIS OF REASONING WITH QUANTIFIERS WITHIN THE ARISTOTELIAN SYLLOGISTIC FRAMEWORK (F-0318)	635
<i>Martin Pereira-Farina, Felix Diaz-Hermida, Alberto Bugarin</i>	
AN APPLICATION OF FUZZY TOPSIS METHOD FOR SUPPLIER SELECTION (F-0266)	643
<i>Mehmet Sevkli, Selim Zaim, Ali Turkyilmaz, Metin Satir</i>	
AN APPROACH FOR THE GENERATION AND ADAPTATION OF ZSLICES BASED GENERAL TYPE-2 FUZZY SETS FROM INTERVAL TYPE-2 FUZZY SETS TO MODEL AGREEMENT WITH APPLICATION TO INTELLIGENT ENVIRONMENTS (F-0336)	650
<i>Christian Wagner, Hani Hagrass</i>	
AN EFFICIENT FUZZY UNIFICATION METHOD AND ITS IMPLEMENTATION INTO THE BOUSI-PROLOG SYSTEM (F-0178)	658
<i>Pascual Julian-Iranzo, Clemente Rubio-Manzano</i>	
AN ENERGY AWARE FUZZY UNEQUAL CLUSTERING ALGORITHM FOR WIRELESS SENSOR NETWORKS (F-0077)	666
<i>Hakan Bagci, Adnan Yazici</i>	
AN ENHANCED APPROACH TO IMPROVE ENTERPRISE COMPETENCY MANAGEMENT (F-0341)	674
<i>Vincenzo Loia, Carmen De Maio, Giuseppe Fenza, Francesco Orciuoli, Sabrina Senatore</i>	
AN EVOLVING MAMDANI-TAKAGI-SUGENO BASED NEURAL-FUZZY INFERENCE SYSTEM WITH IMPROVED INTERPRETABILITY-ACCURACY (F-0498)	682
<i>Weng Luen Ho, Whye Loon Tung, Chai Quek</i>	
AN EXTENSION OF GLOBAL FUZZY C-MEANS USING KERNEL METHODS (F-0345)	690
<i>Gyeongyong Heo, Paul Gader</i>	
AN EXTENSION OF POSSIBILISTIC FUZZY C-MEANS WITH REGULARIZATION (F-0064)	696
<i>Younghwan Namkoong, Gyeongyong Heo, Young Woon Woo</i>	
AN EXTRACTION METHOD FOR THE CHARACTERIZATION OF THE FUZZY RULE BASED CLASSIFICATION SYSTEMS' BEHAVIOR USING DATA COMPLEXITY MEASURES: A CASE OF STUDY WITH FH-GBML (F-0547)	702
<i>Julian Luengo, Francisco Herrera</i>	
AN IMAGE COLOR GRADIENT PRESERVING COLOR CONSTANCY (F-0340)	710
<i>Ramon Moreno, Manuel Grana, Alicia d'Anju</i>	
AN INTELLIGENT FUZZY BASED SYSTEM FOR MARKET DESIGN AGENTS (F-0117)	715
<i>Mohamed Almedhar, Hani Hagrass</i>	
AN OBSERVER-BASED NEURAL ADAPTIVE CONTROL FOR ROLLING CART SYSTEMS (F-0123)	723
<i>Wen-Shyong Yu</i>	
AN ON-LINE LEARNING ALGORITHM FOR COMPLEX FUZZY LOGIC (F-0464)	731
<i>Sara Aghakhani, Scott Dick</i>	
AN ONTOLOGICAL FUZZY SMITH-WATERMAN WITH APPLICATIONS TO PATIENT RETRIEVAL IN ELECTRONIC MEDICAL RECORDS (F-0295)	738
<i>Mihail Popescu</i>	
AN UNCERTAINTY ANALYSIS OF SUPPLIER SELECTION BY FUZZY LOGIC (F-0213)	744
<i>M. Bahar Baskir, I. Burhan Turksen</i>	

ANFIS GENERATED DYNAMIC PATH PLANNING FOR A MOBILE ROBOT TO TRACK A RANDOMLY MOVING TARGET IN A 3-D SPACE WITH OBSTACLE AVOIDANCE (F-0168)	752
<i>Peng-Yung Woo, Vamsi Polisetty</i>	
APPLICATION OF A SEMANTIC-BASED CONVERSATIONAL AGENT TO STUDENT DEBT MANAGEMENT (F-0116)	760
<i>Karen O'Shea, Keeley Crockett, Zuhair Bandar</i>	
APPLICATIONS AND COMPARISONS OF FUZZY SIMILARITY MEASURES (F-0451)	767
<i>Leila Baccour, Adel M. Alimi</i>	
APPLY FUZZY ONTOLOGY TO CMMI-BASED ASAP ASSESSMENT SYSTEM (F-0250)	774
<i>Mei-Hui Wang, Zhi-Rong Yan, Chang-Shing Lee, Pi-Hsia Hung, Yi-Ling Kuo, Hui-Min Wang, Bort-Hung Lin</i>	
APPLYING FUZZY EM ALGORITHM WITH A FAST CONVERGENCE TO GMMS (F-0034)	782
<i>Ju Zhaojie, Liu Honghai</i>	
APPROXIMATING FUZZY PREORDERS AND EQUIVALENCES. A SIMILARITY BASED APPROACH. (F-0173)	788
<i>Dionis Boixader, Jordi Recasens</i>	
AUTOMATED DETERMINATION METHOD OF TIBIAL BONE COORDINATE SYSTEM FOR ANALYSING BONE TUNNEL TRANS-POSITION AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION FROM A KNEE MDCT IMAGE (F-0456)	794
<i>Kouki Nagamune, Daisuke Araki, Seiji Kubo, Ryosuke Kuroda, Masahiro Kurosaka</i>	
AUTOMATED FUZZY LOGIC BASED SKULL STRIPPING IN NEONATAL AND INFANTILE MR IMAGES (F-0504)	800
<i>Kosuke Yamaguchi, Yuko Fujimoto, Syoji Kobashi, Yuki Wakata, Reiichi Ishikura, Kei Kuramoto, Seturo Imawaki, Shozo Hirota, Yutaka Hata, Yutaka Hata, Kei Kuramoto, Seturo Imawaki, Shinichi Yoshiya</i>	
AUTOMATIC DESIGN OF A LEAST COMPLICATED HIERARCHICAL FUZZY SYSTEM (F-0413)	807
<i>Taher M. Jelleli, Adel M. Alimi</i>	
AUTOMATIC EXTRACTION OF LINGUISTIC MODELS FOR IMAGE DESCRIPTION (F-0552)	814
<i>Illuminada Baturone, Andres Gersnoviez</i>	
BASIC PROPERTIES OF THE INTERVAL-VALUED FUZZY MORPHOLOGICAL OPERATORS (F-0273)	822
<i>Tom Melange, Mike Nachtegael, Peter Sussner, Etienne Kerre</i>	
BEHAVIORAL DEVELOPMENT OF BALL KICKING MOTION OF A TWO-WHEELED INVERTED PENDULUM MOBILE ROBOT (F-0354)	830
<i>Yasutake Takahashi, Hiroaki Nonoshita, Takayuki Nakamura, Yoichiro Maeda</i>	
BIOMETRIC LIVENESS CHECKING USING MULTIMODAL FUZZY FUSION (F-0518)	836
<i>Girija Chetty</i>	
BIOMETRIC PERSONAL AUTHENTICATION BY ONE STEP FOOT PRESSURE DISTRIBUTION CHANGE BY FUZZY ARTIFICIAL IMMUNE SYSTEM (F-0191)	844
<i>Takahiro Takeda, Kazuhiko Taniguchi, Kazunari Asari, Kei Kuramoto, Syoji Kobashi, Yutaka Hata</i>	
BISPECTRUM ENTROPY FEATURE EXTRACTION AND ITS APPLICATION FOR FAULT DIAGNOSIS OF GEARBOX (F-0330)	850
<i>Jinying Huang, Hongxia Pan, Shihua Bi</i>	
BUYER AGENT DECISION PROCESS BASED ON AUTOMATIC FUZZY RULES GENERATION METHODS (F-0427)	856
<i>Roi Arapoglou, Kostas Kolomvatos, Stathes Hadjiefthymiades</i>	
CASE-BASED REASONING RETRIEVAL AND REUSE USING CASE RESEMBLANCE HYPERGRAPHS (F-0587)	864
<i>Titilola Fanoiki, Isabela Drummond, Sandra Sandri</i>	
CAUSALITY AND IMPERFECT CAUSALITY FROM TEXTS: A FRAME FOR CAUSALITY IN SOCIAL SCIENCES (F-0584)	871
<i>Alejandro Sobrino, Jose Angel Olivas, Cristina Puente</i>	
CECM : ADDING PAIRWISE CONSTRAINTS TO EVIDENTIAL CLUSTERING (F-0435)	879
<i>Violaine Antoine, Benjamin Quost, Marie-Helene Masson, Thierry Denoeux</i>	
CELLULAR MANUFACTURING SYSTEM SCHEDULING UNDER FUZZY CONSTRAINTS: A GROUP TECHNOLOGY PERSPECTIVE (F-0331)	887
<i>Bo Xing, Wenjing Gao, Fulufhelo V. Nelwamondo, Kimberly Battle, Tshilidzi Marwala</i>	
CENTROID OF A GENERAL TYPE-2 FUZZY SET COMPUTED BY MEANS OF THE CENTROID-FLOW ALGORITHM (F-0066)	895
<i>Daoyuan Zhai and Jerry Mendel</i>	
CLUSTER VALIDITY MEASURES FOR DATA WITH TOLERANCE (F-0386)	903
<i>Yukihiko Hamasuna, Yasunori Endo, Sadaaki Miyamoto</i>	

CLUSTERING ELLIPTICAL ANOMALIES IN SENSOR NETWORKS (F-0039)	909
<i>James Bezdek, Timothy Havens, James Keller, Christopher Leckie, Laurence Park</i>	
CLUSTERING OBSERVED BODY IMAGE FOR IMITATION BASED ON VALUE SYSTEM (F-0515)	917
<i>Yoshihiro Tamura, Yasutake Takahashi, Minoru Asada</i>	
COHEN'S KAPPA COEFFICIENT AS A PERFORMANCE MEASURE FOR FEATURE SELECTION (F-0417)	924
<i>Susana Vieira, Uzay Kaymak, Joao Sousa</i>	
COLLECTING FUZZY PERCEPTIONS FROM NON-EXPERT USERS (F-0544)	932
<i>Jose Barranquero Tolosa, Sergio Guadarrama</i>	
COLOR COMPONENT FEATURE SELECTION IN FEATURE-LEVEL FUSION BASED COLOR FACE RECOGNITION (F-0378)	940
<i>Seung Ho Lee, Jae Young Choi, Konstantinos Plataniotis, Yong Man Ro</i>	
COMBINING CLIMATE TEMPERATURE MODELS THROUGH FUZZY INTERVAL REGRESSION: APPLICATION TO THE LA PLATA BASIN (F-0401)	946
<i>Luiz Rodrigo Tozzi, Alexandre Evsukoff, Amory Bissierier, Reda Boukezzoula, Sylvie Galichet</i>	
COMBINING SEMANTIC WEB TECHNOLOGIES AND COMPUTATIONAL THEORY OF PERCEPTIONS FOR TEXT GENERATION IN FINANCIAL ANALYSIS (F-0281)	953
<i>Sheila Mendez-Nunez, Gracian Trivino</i>	
COMBINING USER'S PREFERENCES AND QUALITY CRITERIA INTO A NEW INDEX FOR GUIDING THE DESIGN OF FUZZY SYSTEMS WITH A GOOD INTERPRETABILITY-ACCURACY TRADE-OFF (F-0226)	961
<i>Jose M. Alonso, Luis Magdalena</i>	
COMMERCIALISATION OF AN ARTIFICIALLY INTELLIGENT DECEPTION DETECTION SYSTEM IN THE CURRENT SECURITY CLIMATE (F-0264)	969
<i>David Mclean, Zuhair Bandar, Jim O Shea, Keeley Crockett</i>	
COMPARATIVE ANALYSIS OF INTERPOLATIVE AND NON-INTERPOLATIVE FUZZY RULE BASED MACHINE LEARNING SYSTEMS APPLYING VARIOUS NUMERICAL OPTIMIZATION METHODS (F-0161)	975
<i>Krisztian Balazs, Janos Botzheim, Laszlo T. Koczy</i>	
COMPLEX SELECTION PROCESSES: DEALING WITH DEPENDENCIES (F-0181)	983
<i>Will Fleury</i>	
COMPUTATIONAL INFERENCE OF TRANSCRIPTION FACTOR COOPERATION BY FUZZY FREQUENT ITEMSET MINING (F-0271)	991
<i>Francisco-Javier Lopez, Carlos Cano, Fernando Garcia, Armando Blanco</i>	
CONSTRUCTION OF PARSIMONIOUS TAKAGI-SUGENO FUZZY RULE BASED MODEL IN CHARACTERISING IMPACTS OF CHILD HEALTH, SOCIOECONOMIC DEPRIVATIONS ON EDUCATIONAL OUTCOMES (F-0307)	999
<i>Shang-Ming Zhou, Ronan Lyons, Mike Gravenor</i>	
CONTEXT-AWARE COLLECTIVE DECISION MAKING BASED ON FUZZY OUTRANKING (F-0523)	1007
<i>Sandeep Chandana, Henry Leung</i>	
CONTEXTUALIZED ACCESS TO DIGITAL MEDICAL RECORDS (F-0624)	1013
<i>Belen Prados-Suarez, Carlos Molina, Carmen Peña Yañez, Miguel A. Prados de Reyes</i>	
CONTINUOUS FUZZY SETS AS PROBABILITIES OF CONTINUOUS FUZZY EVENTS (F-0412)	1019
<i>Elisabeth Rakus-Andersson</i>	
CONTROLLER AND OBSERVER DESIGNS FOR DISCRETE TS MODELS USING AN EFFICIENT LYAPUNOV FUNCTION (F-0283)	1026
<i>Hichem Kerkeni, Thierry Marie Guerra, Jimmy Lauber</i>	
CROWDSOURCING TECHNIQUES TO CREATE A FUZZY SUBSET OF SNOMED CT FOR SEMANTIC TAGGING OF MEDICAL DOCUMENTS (F-0241)	1033
<i>David Parry, Tsung-Chun Tsai</i>	
DATA-DRIVEN DESIGN OF FUZZY CLASSIFICATION RULES WITH SEMANTIC COINTENSION (F-0233)	1041
<i>Raffaele Cannone, Ciro Castiello, Corrado Mencar, Anna Maria Fanelli</i>	
DECISION MAKING IN MULTI-ROBOT COOPERATION BY FUZZY SIGNATURE SETS (F-0492)	1049
<i>Aron Ballagi, Laszlo T. Koczy</i>	
DECISION MAKING STRATEGY IN THE DESIGNING OF A FUZZY CONTROLLER FOR INVERTED PENDULUM-CART SYSTEM (F-0165)	1057
<i>Sahamoddin Khailaie, Parvin Bahmanyar, Caro Lucas</i>	

DECISION SUPPORT SYSTEMS IN MULTICRITERIA GROUPS: AN APPROACH BASED ON FUZZY RULES (F-0374)	1065
<i>Fabio Santos, Heloisa Camargo</i>	
DEFUZZIFICATION AND IMPLICATION WITHIN ORDERED FUZZY NUMBERS (F-0480)	1073
<i>Witold Kosinski, Dorota Wilczynska-Sztyma</i>	
DEGREE OF MONOTONICITY IN AGGREGATION PROCESS (F-0455)	1080
<i>Olga Grigorenko</i>	
DENSITY ORIENTED APPROACH TO IDENTIFY OUTLIERS AND TO GET NOISELESS CLUSTERS IN FUZZY C MEANS (F-0082)	1088
<i>Prabhjot Kaur, Anjana Gosain</i>	
DERIVATION OF THE ANALYTICAL STRUCTURE OF SYMMETRICAL IT2 FUZZY PD AND PI CONTROLLERS (F-0319)	1096
<i>Maowen Nie, Woei Wan Tan</i>	
DESCRIBING IMAGES VIA LINGUISTIC FEATURES AND HIERARCHICAL SEGMENTATION (F-0627)	1104
<i>Rita Castillo-Ortega, Jesus Chamorro-Martinez, Nicolas Marin, Daniel Sanchez, Jose M. Soto-Hidalgo</i>	
DESIGN AND IMPLEMENTATION OF A NEURO-FUZZY SYSTEM FOR LONGITUDINAL CONTROL OF AUTONOMOUS VEHICLES (F-0478)	1112
<i>Joshue Perez, Agustin Gajate, Vicente Milanés, Enrique Onieva, Matilde Santos</i>	
DESIGN OF A LANE DETECTION AND DEPARTURE WARNING SYSTEM USING FUNCTIONAL-LINK-BASED NEURO-FUZZY NETWORKS (F-0188)	1118
<i>Cheng-Jian Lin, Jyun-Guo Wang, Shyi-Ming Chen, Chi-Yung Lee</i>	
DESIGN OF AN ADAPTIVE INTERVAL TYPE-2 FUZZY LOGIC CONTROLLER FOR THE POSITION CONTROL OF A SERVO SYSTEM WITH AN INTELLIGENT SENSOR (F-0011)	1125
<i>Erdal Kayacan, Okyay Kaynak, Rahib Abiyev, Jim Torresen, Mats Hovin, Kyrre Glette</i>	
DESIGN OF NETWORKED CONTROL SYSTEMS WITH PARTLY UNKNOWN MARKOVIAN TRANSITION PROBABILITIES (F-0072)	1133
<i>Guotao Hui, Huaguang Zhang, Yingchun Wang, Meng Dong</i>	
DESIGN OF POLAR-SPACE KINEMATIC CONTROLLER BASED ON ANT COLONY OPTIMIZATION COMPUTING METHOD FOR OMNIDIRECTIONAL MOBILE ROBOTS (F-0149)	1139
<i>Hsu-Chih Huang, Ching-Chih Tsai</i>	
DETECTING HALFTONE DOTS FOR OFFSET PRINT QUALITY ASSESSMENT USING SOFT COMPUTING (F-0423)	1145
<i>Jens Lundstrom, Antanas Verikas</i>	
DETECTION OF TUMORS ON STOMACH WALL IN X-RAY IMAGES (F-0525)	1152
<i>Toshifumi Minemoto, Shinya Odama, Ayumu Saitoh, Teijiro Isokawa, Naotake Kamiura, Haruhiko Nishimura, Shigeki Ono, Nobuyuki Matsui</i>	
DEVANEY CHAOTIC FUZZY DISCRETE DYNAMICAL SYSTEMS (F-0450)	1157
<i>Jiri Kupka</i>	
DEVELOPMENT OF A FAULT DIAGNOSIS SYSTEM BASED ON FUZZIFIED NEURAL NETWORKS (F-0364)	1162
<i>Daisaku Kimura, Manabu Nii, Yutaka Takahashi, Takayuki Yumoto</i>	
DEVELOPMENT OF A WATER QUALITY INDEX USING A FUZZY LOGIC: A CASE STUDY FOR THE SOROCABA RIVER (F-0472)	1168
<i>Sandra R. M. Masalskiene Roveda, Ana Paula Maia Bondanca, Joao Guilherme, Soares Silva, Jose Arnaldo Frutuoso Roveda, Andre Henrique Rosa</i>	
DEVELOPMENT OF ANTI-DIABETIC DRUGS ONTOLOGY FOR GUIDELINE-BASED CLINICAL DRUGS RECOMMEND SYSTEM USING OWL AND SWRL (F-0148)	1173
<i>Rung-Ching Chen, Cho-Tsan Bau, Yun-Hou Huang</i>	
DIRECTIONAL INTENTION IDENTIFICATION FOR RUNNING CONTROL OF AN OMNI-DIRECTIONAL WALKER (F-0190)	1179
<i>Yinlai Jiang, Shuoyu Wang</i>	
DISCRETE T-NORMS IN A FUZZY MATHEMATICAL MORPHOLOGY: ALGEBRAIC PROPERTIES AND EXPERIMENTAL RESULTS (F-0231)	1187
<i>Manuel Gonzalez-Hidalgo, Sebastia Massanet, Joan Torrens</i>	
DIVERSIFICATION OF FUZZY ASSOCIATION RULES TO IMPROVE PREDICTION ACCURACY (F-0549)	1195
<i>Bilal Sowan, Keshav Dahal, Alamgir Hossain, Mohammad Alam</i>	
DYNAMIC FUZZY C-MEANS (DFCM) CLUSTERING FOR CONTINUOUSLY VARYING DATA ENVIRONMENTS (F-0366)	1203
<i>Radha Sandhir, Satish Kumar</i>	

DYNAMIC K-NEAREST NEIGHBORS FOR THE MONITORING OF EVOLVING SYSTEMS (F-0442)	1211
<i>Laurent Hartert, Moamar Sayed-Mouchaweh, Patrice Billaudel</i>	
ECONOMIC TRENDS PREDICTION BASED ON LINGUISTIC REASONING (F-0395)	1218
<i>Shinichiro Ito, Tomohiro Takagi</i>	
EFFECT OF DATA QUALITY ON HABITAT PREFERENCE EVALUATION FOR JAPANESE MEDAKA (ORYZIAS LATIPES) USING A SIMPLE GENETIC FUZZY SYSTEM (F-0436)	1224
<i>Shinji Fukuda</i>	
EFFECTS OF FINE FUZZY PARTITIONS ON THE GENERALIZATION ABILITY OF EVOLUTIONARY MULTI-OBJECTIVE FUZZY RULE-BASED CLASSIFIERS (F-0621)	1231
<i>Hisao Ishibuchi, Yusuke Nakashima, Yusuke Nojima</i>	
EFFICIENT ALGORITHMS FOR COMPUTING A CLASS OF SUBSETHOOD AND SIMILARITY MEASURES FOR INTERVAL TYPE-2 FUZZY SETS (F-0043)	1239
<i>Dongrui Wu, Jerry Mendel</i>	
EMOTION CONTROL BY AUDIO-VISUAL STIMULUS USING FUZZY AUTOMATA (F-0563)	1246
<i>Aruna Chakraborty, Amit Konar, Anisha Halder, Enjun Kim</i>	
ENHANCED INTERVAL APPROACH FOR ENCODING WORDS INTO INTERVAL TYPE-2 FUZZY SETS AND CONVERGENCE OF THE WORD FOCUS (F-0211)	1254
<i>Simon Coupland, Jerry Mendel, Dongrui Wu</i>	
ENHANCED WEAKLY TRAINED FRONTAL FACE DETECTOR FOR SURVEILLANCE PURPOSES (F-0419)	1262
<i>Wael Louis, Konstantinos N. Plataniotis, Yong Man Ro</i>	
ENHANCING THE INTERPRETABILITY OF GENETIC FUZZY CLASSIFIERS IN LAND COVER CLASSIFICATION FROM HYPERSPECTRAL SATELLITE IMAGERY (F-0514)	1270
<i>Dimitris G. Stavrakoudis, Georgia N. Galidaki, Ioannis Z. Gitas, John Theocharis</i>	
EQUILIBRIUM PRICING VECTOR BASED ON THE HYBRID MEAN-VARIANCE THEORY WITH INVESTOR'S SUBJECTIVITY (F-0220)	1278
<i>Takashi Hasuike</i>	
EVALUATING IDEAL COMBINATIONS OF NECKTIE AND Y-SHIRT BY SELF-ORGANIZATION MAP FOR THE COORDINATION SYSTEM (F-0217)	1284
<i>Hoshino Yukinobu</i>	
EVALUATING LOCATION CHOICES USING PERCEPTUAL COMPUTER APPROACH (F-0244)	1289
<i>Shilian Han, Jerry Mendel</i>	
EVALUATION OF ADAPTIVE FRIFS METHOD THROUGH SEVERAL CLASSIFICATION COMPARISONS (F-0392)	1297
<i>Vincent Bombardier, Laurent Wendling, Emmanuel Schmitt</i>	
EVALUATION OF FUZZY-BASED MAXIMUM POWER TRACKING IN WIND ENERGY CONVERSION SYSTEMS (WECS) (F-0076)	1303
<i>Abdel Latif Elshafei, Hassan Emara, Maher Azzouz</i>	
EVALUATION OF INFORMATION LOSS FOR PRIVACY PRESERVING DATA MINING THROUGH COMPARISON OF FUZZY PARTITIONS (F-0175)	1310
<i>Isaac Cano, Susana Ladra, Vicenc Torra</i>	
EVOLUTIONARY OPTIMIZATION OF TYPE-2 FUZZY SYSTEMS BASED ON THE LEVEL OF UNCERTAINTY (F-0588)	1318
<i>Denisse Hidalgo, Patricia Melin, Olivia Mendoza</i>	
EVOLVING FUZZY LINEAR REGRESSION TREES (F-0282)	1324
<i>Andre Lemos, Walmir Caminhas, Fernando Gomide</i>	
EVOLVING FUZZY OPTIMALLY PRUNED EXTREME LEARNING MACHINE: A COMPARATIVE ANALYSIS (F-0443)	1332
<i>Federico Montesino Pouzols, Amaury Lendasse</i>	
EXACT LINEARIZATION AND FUZZY LOGIC APPLIED TO THE CONTROL OF A MAGNETIC LEVITATION SYSTEM (F-0477)	1340
<i>Luíz Torres, Carlos A. V. Vasconcelos Jr., Leizer Schnitman, J. A. M. Felipe de Souza</i>	
EXACT SOLUTIONS TO FUZZY PD-LMIS VIA SOS (F-0071)	1345
<i>Ji-chang Lo, Ming-Zhe Liu</i>	
EXAMINING THE CONTINUITY OF TYPE-1 AND INTERVAL TYPE-2 FUZZY LOGIC SYSTEMS (F-0040)	1351
<i>Dongrui Wu, Jerry Mendel</i>	
EXPLOITING A COEVOLUTIONARY APPROACH TO CONCURRENTLY SELECT TRAINING INSTANCES AND LEARN RULE BASES OF MAMDANI FUZZY SYSTEMS (F-0449)	1359
<i>Michela Antonelli, Pietro Ducange, Francesco Marcelloni</i>	

EXPLOITING A THREE-OBJECTIVE EVOLUTIONARY ALGORITHM FOR GENERATING MAMDANI FUZZY RULE-BASED SYSTEMS (F-0287)	1366
<i>Michela Antonelli, Pietro Ducange, Beatrice Lazzarini, Francesco Marcelloni</i>	
EXPLOITING TIMED AUTOMATA-BASED FUZZY CONTROLLERS AND DATA MINING TO DETECT COMPUTER NETWORK INTRUSIONS (F-0533)	1374
<i>Giovanni Acampora</i>	
EXPLORING THE USE OF FUZZY SIGNATURE FOR TEXT MINING (F-0522)	1382
<i>Kok Wai Wong, Todsanaï Chumwatana, Domonkos Tikk</i>	
EXPRESSIONS OF GRADUALITY FOR SENTIMENTS ANALYSIS - A SURVEY (F-0603)	1387
<i>Fabon Dzogang, Marie-Jeanne Lesot, Maria Rifqi, Bernadette Bouchon-Meunier</i>	
EXTENDED CONCEPT OF LOGIC MINIMIZATION FOR RULE REDUCTION (F-0025)	1394
<i>Rolly Intan, Takagi Noboru</i>	
EXTENDING EVOLUTIONARY FUZZY QUANTILE INFERENCE TO CLASSIFY PARTIALLY OCCLUDED HUMAN MOTIONS (F-0093)	1400
<i>Mehdi Khoury, Honghai Liu</i>	
EXTENDING PROPOSITIONAL SATISFIABILITY TO DETERMINE MINIMAL FUZZY-ROUGH REDUCTS (F-0033)	1408
<i>Richard Jensen, Andrew Tuson, Qiang Shen</i>	
EXTRACTION, ANALYSIS AND REPRESENTATION OF IMPERFECT CONDITIONAL AND CAUSAL SENTENCES BY MEANS OF A SEMI-AUTOMATIC PROCESS (F-0591)	1416
<i>Cristina Puente, Alejandro Sobrino, Jose Angel Olivias, Roberto Merlo</i>	
FACISME: FUZZY ASSOCIATIVE CLASSIFICATION USING ITERATIVE SCALING AND MAXIMUM ENTROPY (F-0466)	1424
<i>Ashish Mangalampalli, Vikram Pudi</i>	
FAST FUZZY VECTOR QUANTIZATION (F-0416)	1432
<i>George Tsekouras, Dimitrios Dartzentas, Ioanna Drakoulaki, Antonios Niros</i>	
FAULT DETECTION FOR A CLASS OF NETWORKED CONTROL SYSTEMS VIA T-S FUZZY MODEL APPROACH (F-0192)	1440
<i>Zehui Mao, Bin Jiang, Yufei Xu</i>	
FAULT TOLERANT CONTROL USING EVOLVING FUZZY MODELING (F-0578)	1448
<i>D. Chivala, J.M.C. Sousa, L.F. Mendonca, J.M.G. Sa da Costa</i>	
FEATURE SELECTION IN HAPTIC-BASED HANDWRITTEN SIGNATURES USING ROUGH SETS (F-0454)	1456
<i>Nizar Sakr, Fawaz A. Alsulaiman, Julio J. Valdes, Abdulmotaleb El Saddik, Nicolas D. Georganas</i>	
FILTERING FALSE DETECTIONS OF SMALL MULTIPLE SCLEROSIS LESIONS USING FUZZY REGIONAL ANALYSIS (F-0607)	1464
<i>Francesc Xavier Aymerich, Pilar Sobrevilla, Eduard Montseny, Alex Rovira</i>	
FORECASTING TIME-SERIES FOR NN GC1 USING EVOLVING TAKAGI-SUGENO (ETS) FUZZY SYSTEMS WITH ON-LINE INPUTS SELECTION (F-0604)	1472
<i>Javier Andreu, Plamen Angelov</i>	
FORMULATING DESCRIPTION LOGIC LEARNING AS AN INDUCTIVE LOGIC PROGRAMMING TASK (F-0424)	1477
<i>Stasinos Konstantopoulos, Angelos Charalambidis</i>	
FPGA IMPLEMENTATION OF (P)-MONOTONE SUM OF BASIC T-NORMS (F-0521)	1484
<i>Prometeo Cortes Antonio, Ildar Batyrshin, Imre J Rudas, Alexandra Panova, Luis Villa Vargas</i>	
FPREP: FUZZY CLUSTERING DRIVEN EFFICIENT AUTOMATED PRE-PROCESSING FOR FUZZY ASSOCIATION RULE MINING (F-0469)	1491
<i>Ashish Mangalampalli, Vikram Pudi</i>	
FROM CLASSICAL DESCRIPTION LOGIC TO N-GRADED FUZZY DESCRIPTION LOGIC (F-0460)	1499
<i>Marco Cerami, Angel Garcia-Cerdanya, Francesc Esteva</i>	
FUNCTION APPROXIMATION PERFORMANCE OF FUZZY NEURAL NETWORKS BASED ON FREQUENTLY USED FUZZY OPERATIONS AND A PAIR OF NEW TRIGONOMETRIC NORMS (F-0338)	1507
<i>Laszlo Gal, Rita Lovassy, Laszlo T. Koczy</i>	
FUSION OPERATORS FOR MULTI-MODAL BIOMETRIC AUTHENTICATION BASED ON PHYSIOLOGICAL SIGNALS (F-0463)	1515
<i>Aureli Soria-Frisch, Alejandro Riera, Stephen Dunne</i>	
FUZZY ANOMALY DETECTION IN MONITORING SENSOR DATA (F-0339)	1522
<i>Julien Rabatel, Sandra Bringay, Pascal Poncelet</i>	

FUZZY APPROACH FOR VEHICLE ROUTING PROBLEMS WITH FUZZY TRAVEL TIME (F-0593)	1530
<i>Julio Brito, F. Javier Martinez, Jose A. Moreno, Jose L. Verdegay</i>	
FUZZY APPROACHES FOR ROBUST JOB SHOP RESCHEDULING (F-0208)	1538
<i>Patrick Moratori, Sanja Petrovic, Jose Antonio Vazquez Rodriguez</i>	
FUZZY BELIEF STRUCTURES VIEWED AS CLASSICAL BELIEF STRUCTURES: A PRACTICAL VIEWPOINT.(F-0113)	1545
<i>Sebastien Destercke</i>	
FUZZY CLUSTERING AND RELEVANCE RANKING OF WEB SEARCH RESULTS WITH DIFFERENTIATING CLUSTER LABEL GENERATION (F-0225)	1553
<i>Takazumi Matsumoto, Edward Hung</i>	
FUZZY CONTROL OF PARAMETERS TO DYNAMICALLY ADAPT THE PSO AND GA ALGORITHMS (F-0559)	1561
<i>Fevrier Valdez, Patricia Melin, Oscar Castillo</i>	
FUZZY CONTROLLER FOR THE HIGH-ACCURACY AUTOMATIC ASSEMBLY OF VEHICLE HEADLAMPS (F-0256)	1569
<i>Javier Gamez-Garcia, Juan Gomez-Ortega, Alejandro Sanchez-Garcia, Silvia Satorres-Martinez</i>	
FUZZY CONTROLLER FOR UAV-LANDING TASK USING 3D-POSITION VISUAL ESTIMATION (F-0397)	1577
<i>Miguel A. Olivares-Mendez, Ivan F. Mondragon, Pascual Campoy, Carol Martinez</i>	
FUZZY DECISION FUSION FOR SINGLE TARGET CLASSIFICATION IN WIRELESS SENSOR NETWORKS (F-0291)	1585
<i>Sercan Gok, Adnan Yazici, Ahmet Cosar, Roy George</i>	
FUZZY DYNAMIC MODEL FOR FEATURE TRACKING (F-0278)	1593
<i>Pedro Couto, Nuno Lopes, Humberto Bustince, Pedro Melo-Pinto</i>	
FUZZY ENVIRONMENTAL QUALITY INDEX (F-0470)	1601
<i>Jose Arnaldo Frutoso Roveda, Mauricio Tavares Mota, Sandra R. M. Masalskiene</i>	
ROVEDA, ROBERTO WAGNER LOURENCO AND ANTONIO CESAR GERMANO MARTINS FUZZY EVIDENCE ACCRUAL APPLIED TO SUSTAINABLE MANUFACTURING (F-0495)	1607
<i>Kathleen Kramer, Stephen Stubberud</i>	
FUZZY FEATURE WEIGHTING TECHNIQUES FOR VECTOR QUANTISATION (F-0405)	1614
<i>Dat Tran, Wanli Ma, Dharmendra Sharma, Phuoc Nguyen</i>	
FUZZY FILTERING SYSTEMS FOR PERFORMING ENVIRONMENT IMPROVEMENT OF COMPUTATIONAL DNA MOTIF DISCOVERY (F-0022)	1620
<i>Dianhui Wang, Sarwar Tapan</i>	
FUZZY FREQUENCY RESPONSE: DEFINITION AND ANALYSIS FOR COMPLEX DYNAMIC SYSTEMS (F-0012)	1628
<i>Carlos Cesar Teixeira Ferreira, Ginalber Luiz de Oliveira Serra</i>	
FUZZY FUNCTIONAL INFERENCE METHOD (F-0543)	1636
<i>Hirosato Seki, Masaharu Mizumoto</i>	
FUZZY GENERALIZED AGGREGATION OPERATORS IN A UNIFIED MODEL BETWEEN THE PROBABILITY, THE WEIGHTED AVERAGE AND THE OWA OPERATOR (F-0565)	1642
<i>Jose M. Merigo</i>	
FUZZY INFERENCE FOR LEARNING OBJECT RECOMMENDATION (F-0362)	1649
<i>Mario Garcia-Valdez, Arnulfo Alanis, Brunette Parra</i>	
FUZZY INFERENCE MODELS FOR DISCRETE EVENT SYSTEMS (F-0138)	1655
<i>Paul-Antoine Bisgambiglia, Laurent Capocchi, Paul Bisgambiglia,Stephane Garredu</i>	
FUZZY LOGIC APPLIED TO DETECT OLIVE TREES IN HIGH RESOLUTION IMAGES (F-0614)	1663
<i>Juan Moreno-Garcia, Luis Jimenez, Luis Rodriguez-Benitez, Cayetano Solana-Cipres</i>	
FUZZY LOGIC CONTROLLER FOR FREEWAY RAMP METERING WITH PARTICLE SWARM OPTIMIZATION AND PARAMICS PLATFORM (F-0391)	1670
<i>Jianxin Xu, Xinjie Zhao, Dipti Srinivasan</i>	
FUZZY LOGIC HELPS TO INTEGRATE MUSIC THEORY AND PRACTICE (F-0108)	1676
<i>Teresa Leon, Vicente Liern</i>	
FUZZY MODELING FOR VEHICLE MANEUVER DETECTION IN A SCENE (F-0323)	1681
<i>Fernando Terroso-Saenz, Mercedes Valdes-Vela</i>	
FUZZY MULTI-LABEL LEARNING UNDER VERISTIC VARIABLES (F-0317)	1689
<i>Zoulficar Younes, Fahed Abdallah, Thierry Denoeux</i>	
FUZZY NASH EQUILIBRIUM IN FUZZY GAMES USING RANKING FUZZY NUMBERS (F-0215)	1697
<i>Alireza Chakeri, Nasser Sadati, Setareh Sharifian</i>	

FUZZY NETWORK OF REASONING BY SVD AND MORPHOTRONIC NETWORK (F-0257)	1702
<i>Germano Resconi, Zenon Chaczko</i>	
FUZZY ONTOLOGIES AND KNOWLEDGE MOBILISATION: TURNING AMATEURS INTO WINE CONNOISSEURS (F-0272)	1710
<i>Christer Carlsson, Matteo Brunelli, Mezei Jozsef</i>	
FUZZY QUALITATIVE COMPLEX ACTIONS RECOGNITION (F-0511)	1717
<i>Chee Seng Chan, Honghai Liu, Weng Kin Lai</i>	
FUZZY REAL OPTION VALUE INTEGRATED FUZZY ANP METHOD FOR LOCATION SELECTION PROBLEMS (F-0107)	1725
<i>A. Cagri Tolga, Fatih Tuysuz, Cengiz Kahraman</i>	
FUZZY SOLID MODELS: FOUNDATIONS, REPRESENTATIONS AND FRAMEWORK (F-0611)	1734
<i>Angel Zaldivar, Juan Carlos Torres</i>	
FUZZY SUPPORT VECTOR MACHINE WITH A FUZZY NEAREST NEIGHBOR CLASSIFIER FOR INSECT FOOTPRINT CLASSIFICATION (F-0085)	1742
<i>Gyeongyong Heo, Reinhard Klette, Young Woon Woo, Kwang-Baek Kim, Nam Ho Kim</i>	
FUZZY WALKING AND TURNING TAP MOVEMENT FOR HUMANOID SOCCER ROBOT EFU-RIO (F-0409)	1748
<i>Indra Adji Sulistijono, One Setiaji, Inzar Salfikar, Naoyuki Kubota</i>	
FUZZY WORD SIMILARITY: A SEMANTIC APPROACH USING WORDNET (F-0557)	1754
<i>Sukanya Manna, B.S.U. Mendis</i>	
FUZZY- BAYESIAN NETWORK APPROACH TO GENRE-BASED RECOMMENDER SYSTEMS (F-0337)	1762
<i>Soheila Ashkezari-T, Mohammad-R. Akbarzadeh-T.</i>	
FUZZY-ROUGH INSTANCE SELECTION (F-0554)	1769
<i>Richard Jensen, Chris Cornelis</i>	
FUZZYCN2: AN ALGORITHM FOR EXTRACTING FUZZY CLASSIFICATION RULE LISTS (F-0177)	1776
<i>Pablo Mart'ın-Mu'noz, Francisco J. Moreno-Velo</i>	
GENERAL TYPE-2 FLS WITH UNCERTAINTY GENERATED BY FUZZY ROUGH SETS (F-0458)	1783
<i>Janusz Starczewski</i>	
GENERALIZED CLUSTER BASED FUZZY MODEL TREE FOR DATA MODELING AND PREDICTION (F-0222)	1789
<i>Jin-I Park, Young-Im Cho, Myung-Geun Chun</i>	
GENETIC FUZZY SYSTEM FOR PREDICTIVE AND DECISION SUPPORT MODELLING IN E-LEARNING (F-0198)	1797
<i>Angela Nebot, Francisco Mugica, Felix Castro, Jesus Acosta</i>	
GENETIC TUNING OF A LASER POINTER ENVIRONMENT CONTROL DEVICE SYSTEM FOR HANDICAPPED PEOPLE WITH FUZZY SYSTEMS (F-0581)	1805
<i>Francisco Chavez, Francisco Fernandez, Jesus Alcala-Fdez, Rafael Alcala, Francisco Herrera, Gustavo Olague</i>	
GOAL ORIENTATED CONVERSATIONAL AGENTS - THE ROCKY ROAD TO COMMERCIALIZATION (F-0207)	1813
<i>Keeley Crockett, Zuhair Bandar, James O'Shea, David Mclean</i>	
H-INFINITY CONTROL FOR FUZZY SAMPLED-DATA SYSTEMS WITH DISCRETE AND DISTRIBUTED DELAYS (F-0074)	1821
<i>Tomoaki Ishihara, Jun Yoneyama</i>	
H-INFINITY DECENTRALIZED STATIC OUTPUT FEEDBACK CONTROLLER DESIGN FOR LARGE SCALE TAKAGI-SUGENO SYSTEMS (F-0259)	1828
<i>Kevin Guelton, Nouredine Manamanni, Dalel Jabri</i>	
HARD AND FUZZY C-REGRESSION MODELS FOR DATA WITH TOLERANCE IN INDEPENDENT AND DEPENDENT VARIABLES (F-0367)	1835
<i>Yasunori Endo, Kouta Kurihara, Sadaaki Miyamoto, Yukihiko Hamasuna</i>	
HEDGE ALGEBRAIC TYPE-2 FUZZY SETS (F-0200)	1843
<i>Dinh Khang Tran, Anh Phong Phan, Khac Dong Dinh, Minh Trang Cao</i>	
HEURISTIC LOCAL SEARCH FOR FUZZY OPEN SHOP SCHEDULING (F-0333)	1851
<i>Ines Gonzalez-Rodriguez, Juan Jose Palacios, Camino R Vela, Jorge Puente</i>	
HIERARCHICAL FUZZY SYSTEM MODELLING BY GENETIC AND BACTERIAL PROGRAMMING APPROACHES (F-0599)	1859
<i>Krisztian Balazs, Janos Botzheim, Laszlo T. Koczy</i>	
HUMAN ACTIONS RECOGNITION USING FUZZY PCA AND DISCRIMINATIVE HIDDEN MODEL (F-0376)	1865
<i>Xiaofei Ji, Honghai Liu, Yibo Li</i>	

HUMAN ACTIVITY RECOGNITION APPLYING COMPUTATIONAL INTELLIGENCE TECHNIQUES FOR FUSING INFORMATION RELATED TO WIFI POSITIONING AND BODY POSTURE (F-0176)	1871
<i>Alberto Alvarez-Alvarez, Jose M. Alonso, Gracian Trivino, Noelia Hernandez, Fernando Herranz, Angel Llamazares, Manuel Ocana</i>	
HYBRID FUZZY-MUTIAGENT PLANNING FOR ROBUST MOBILE ROBOT MOTION (F-0582)	1879
<i>Sonia Kefi, Habib M. Kammoun, Ilhem Kallel, Adel M. Alimi</i>	
HYBRIDIZING FUZZY CONTROL AND TIMED AUTOMATA FOR MODELING VARIABLE STRUCTURE FUZZY SYSTEMS (F-0394)	1887
<i>Giovanni Acampora, Vincenzo Loia, Autilia Vitiello</i>	
IMAGE BASED VISUAL SERVOING OF A 7 DOF ROBOT MANIPULATOR USING DISTRIBUTED FUZZY PROPORTIONAL CONTROLLER (F-0327)	1895
<i>Ihdrazno Siradjuddin, Laxmidhar Behera, T.M. McGinnity, Sonya Coleman</i>	
IMAGE REDUCTION WITH LOCAL REDUCTION OPERATORS (F-0532)	1903
<i>Daniel Paternain, Humberto Bustince, Javier Fernandez, Gleb Beliakov, Radko Mesiar</i>	
IMMUNE ENGINEERING FOR ELGASIR ALGORITHM OPTIMIZATION (F-0474)	1911
<i>Fathi Gasir, Zuhair Bandar, Keeley Crockett, Alan Crispin</i>	
IMPLEMENTATION CONSIDERATIONS OF FUZZY LOGIC CONTROL ALGORITHMS (F-0021)	1918
<i>Dali Wang, Ying Bai</i>	
IMPLEMENTATION OF A FUZZY MODEL FOR COMPUTATION OF MARGINS IN CANCER TREATMENT. (F-0036)	1924
<i>Bongile Mzenda, Mir Hosseini-Ashrafi, Alex Gegov, David Brown</i>	
IMPLEMENTING AN INTERVAL TYPE-2 FUZZY PROCESSOR ONTO A DSC 56F8013 (F-0418)	1932
<i>Leonardo Leottau, Miguel Melgarejo</i>	
IMPORTANCE SAMPLING BASED DEFUZZIFICATION FOR GENERAL TYPE-2 FUZZY SETS (F-0610)	1936
<i>Ondrej Linda, Milos Manic</i>	
IMPROVEMENT IN THE PERFORMANCE OF CAMERA BASED VEHICLE DETECTOR FOR PARKING LOT (F-0069)	1943
<i>Hidetomo Ichihashi, Tatsuya Kataada, Makoto Fujiyoshi, Akira Notsu, Katsuhiko Honda</i>	
IMPROVEMENTS IN SUGENO-YASUKAWA MODELLING ALGORITHM (F-0361)	1950
<i>Amir Hadad, B.S.U. Mendis, Tom Gedeon</i>	
INCREMENTAL REGULARIZATION TO COMPENSATE BIASED TEACHERS IN INCREMENTAL LEARNING (F-0328)	1956
<i>Nils Rosemann, Werner Brockmann</i>	
INFORMATION MEASURES OVER INTUITIONISTIC FOUR VALUED FUZZY PREFERENCES (F-0162)	1964
<i>Camilo Franco de los Rios, J. Tinguaro Rodriguez, Javier Montero</i>	
INFORMATION THEORETIC FUZZY MODELING FOR REGRESSION (F-0046)	1972
<i>Diego Alvarez-Estevéz, Jose C. Principe, Vicente Moret-Bonillo</i>	
INSTRUCTION FOR REINFORCEMENT LEARNING AGENT BASED ON SUB-REWARDS AND FORGETTING (F-0564)	1977
<i>Toshihiko Watanabe, Toru Sawa</i>	
INTELLIGENT ADAPTIVE MOTION CONTROL USING FUZZY BASIS FUNCTION NETWORKS FOR SELF-BALANCING TWO-WHEELED TRANSPORTERS (F-0234)	1984
<i>Ching-Chih Tsai, Shui-Chun Lin, Bor-Chih Lin</i>	
INTELLIGENT CONTENT RETRIEVAL USING A VISUAL VOCABULARY AND GEOMETRIC CONSTRAINTS (F-0267)	1990
<i>Evaggelos Spyrou, Yannis Kalantidis, Giorgos Toliás, Phivos Mylonas, Stefanos Kollias</i>	
INTELLIGENT USER SEARCH BEHAVIOUR KNOWLEDGE DISCOVERY (F-0583)	1998
<i>Yun Shen, Trevor Martin</i>	
INTERPRETABILITY IMPROVEMENT OF FUZZY SYSTEMS: REDUCING THE NUMBER OF UNIQUE SINGLETONS IN ZEROth ORDER TAKAGI-SUGENO SYSTEMS (F-0051)	2006
<i>Andri Riid, Ennu Rustern</i>	
INTERPRETABLE FUZZY INFERENCE SYSTEMS FOR COOPERATION OF EXPERT KNOWLEDGE AND DATA IN AGRICULTURAL APPLICATIONS USING FISPRO (F-0114)	2012
<i>Serge Guillaume, Brigitte Charnomordic</i>	
INTERPRETABLE FUZZY MODELING USING MULTI-OBJECTIVE IMMUNE-INSPIRED OPTIMIZATION ALGORITHMS (F-0539)	2020
<i>Jun Chen, Mahdi Mahfouf</i>	

INTERPRETABLE FUZZY SYSTEMS: ANALYSIS OF T-NORM INTERPRETABILITY (F-0502)	2028
<i>Boris Kovalerchuk</i>	
INTERSECTION AND UNION OF TYPE-N FUZZY SETS (F-0170)	2036
<i>Janet Aisbett, John Rickard, David Morgenthaler</i>	
INTERVAL TYPE-2 FUZZY CLASSIFIER DESIGN USING GENETIC ALGORITHMS (F-0053)	2044
<i>Adinovam Pimenta, Heloisa Camargo</i>	
INTERVAL TYPE-2 FUZZY MODEL BASED INDIRECT ADAPTIVE TRACKING CONTROL DESIGN FOR NONLINEAR SYSTEMS WITH DEAD-ZONES (F-0199)	2051
<i>Chen Ho-Sheng, Yu Wen-Shyong</i>	
INTERVAL-VALUED CONTRACTIVE FUZZY NEGATIONS (F-0100)	2057
<i>Benjamin Bedregal, Humberto Bustince, Glad Deschrijver, Radko Mesiar, Javier Fernandez</i>	
INTERVAL-VALUED FUZZY DECISION TREES (F-0279)	2063
<i>Youthachai Lertworaprachaya, Yingjie Yang, Robert John</i>	
INVENTORY OPTIMISATION WITH AN INTERVAL TYPE-2 FUZZY MODEL (F-0228)	2070
<i>Simon Miller, Mario Gongora, Robert John</i>	
INVESTIGATION OF SOCIAL ADAPTIVE SKILLS BY CROSS-CULTURAL SIMULATION GAME AND KISS-18 (F-0371)	2077
<i>Daisuke Katagami, Hidefumi Ohmura, Katsumi Nitta</i>	
ITERATIVE DISCRETE FORWARD-BACKWARD FUZZY PREDICTIVE CONTROL (F-0444)	2083
<i>Sergio Garcia-Nieto, Jose Vicente Salcedo, Miguel Martinez, Gilberto Reynoso-Meza</i>	
KNOWLEDGE DISCOVERY WITH ARTIFICIAL IMMUNE SYSTEMS FOR HIERARCHICAL MULTILABEL CLASSIFICATION OF PROTEIN FUNCTIONS (F-0353)	2090
<i>Roberto Alves, Myriam Delgado, Alex Freitas</i>	
KNOWLEDGE EXTRACTION OF THE BEHAVIOUR OF SOFTWARE DEVELOPERS BY THE ANALYSIS OF TIME RECORDING LOGS (F-0382)	2098
<i>Arturo Peralta, Francisco P. Romero, Jose A. Olivás, Macario Polo</i>	
KNOWLEDGE MANAGEMENT APPROACH FOR SAVING HOME ENERGY CONSUMPTION (F-0205)	2106
<i>Shuki Inoue, Jin Dai, Masakazu Shiba, Aoki Shingo, Tsuji Hiroshi</i>	
LABELED RDF (F-0440)	2112
<i>Mauro Mazzieri, Aldo Franco Dragoni</i>	
LEARNING AND ADAPTATION OF ROBOT SKILLS USING FUZZY MODELS (F-0057)	2119
<i>Rainer Palm, Boyko Iliev</i>	
LEARNING COOPERATIVE LINGUISTIC FUZZY RULES USING FAST LOCAL SEARCH ALGORITHMS (F-0276)	2127
<i>Luis delaOssa, Jose A. Gamez, Jose M. Puerta</i>	
LEARNING GRADUAL RULES TO MODEL CONVEX POLYGON-SHAPED CLASSES (F-0520)	2135
<i>Lavinia Darlea, Sylvie Galichet, Lionel Valet, Gabriel Vasile, Trouve Emmanuel</i>	
LINGUISTIC APPROACH TO TIME SERIES ANALYSIS AND FORECASTS (F-0369)	2142
<i>Martin Stepnicka, Antonin Dvorak, Viktor Pavliska, Lenka Vavrickova</i>	
LINGUISTIC DESCRIPTION OF TRAFFIC IN A ROUNDABOUT (F-0237)	2151
<i>Gracian Trivino, Angel Sanchez, Antonio Montemayor, Juan Pantrigo, Raul Cabido, Eduardo G. Pardo</i>	
LINGUISTIC SUMMARIZATION USING IF-THEN RULES (F-0048)	2159
<i>Dongrui Wu, Jerry Mendel, Jhiin Joo</i>	
LMI APPROACH TO OUTPUT FEEDBACK CONTROL FOR FUZZY SYSTEMS (F-0075)	2167
<i>Jun Yoneyama</i>	
LMI-BASED STABILITY ANALYSIS OF FUZZY MODEL-BASED CONTROL SYSTEMS USING APPROXIMATED POLYNOMIAL MEMBERSHIP FUNCTIONS (F-0320)	2173
<i>Mohammad Narimani, H.K. Lam</i>	
LOCAL FUSION WITH FUZZY INTEGRALS (F-0240)	2181
<i>Ahmed Chamseddine Ben Abdallah, Hichem Frigui, Gader Paul</i>	
LOCAL FUZZY MODELING: MAXIMISING THE BASIN OF ATTRACTION (F-0089)	2188
<i>Jose L. Pitarch, Carlos V. Arino, F. Bedate, Antonio Sala</i>	
LOCALISING AGENTS IN MULTIPLE-OCCUPANT INTELLIGENT ENVIRONMENTS (F-0390)	2195
<i>M.Javad Akhlaghinia, Ahmad Lotfi, Caroline Langensiepen</i>	
LOCALIZATION OF HUMAN BASED ON FUZZY SPIKING NEURAL NETWORK IN INFORMATIONALLY STRUCTURED SPACE (F-0527)	2202
<i>Naoyuki Kubota, Dalai Tang, Takenori Obo, Shiho Wakisaka</i>	
LOCALIZATION OF HUMAN IN INFORMATIONALLY STRUCTURED SPACE BASED ON SENSOR NETWORKS (F-0531)	2208
<i>Takenori Obo, Naoyuki Kubota, Beom Lee</i>	

LOGIC AGGREGATION OF SUITABILITY MAPS (F-0496)	2215
<i>Jozo Dujmovic, David Scheer</i>	
LUMPABILITY OF ABSORBING MARKOV CHAINS AND REPLACEMENT CHAINS ON FUZZY PARTITIONS (F-0334)	2223
<i>Ioannis Gerontidis, Ioannis Petasakis</i>	
MAXIMUM POWER CONTROL OF WIND ENERGY CONVERSION SYSTEMS VIA A T-S FUZZY MODEL-BASED APPROACH (F-0218)	2231
<i>Chian-Song Chiu, Teng-Shung Chiang, Ya-Ting Lee</i>	
MEASURING INSTABILITY IN NORMAL RESIDUATED LOGIC PROGRAMS: ADDING INFORMATION (F-0595)	2237
<i>Nicolas Madrid, Manuel Ojeda-Aciego</i>	
MEMORY CONTROL OF TABU SEARCH WITH GENETIC FUZZY SYSTEMS (F-0238)	2244
<i>Vitor Marques, Fernando Gomide</i>	
META-LEARNING FOR TIME SERIES FORECASTING IN THE NN GC1 COMPETITION (F-0269)	2251
<i>Christiane Lemke, Bogdan Gabrys</i>	
METAHEURISTIC SEARCH PROCEDURE BASED ON FUZZY GRAPH FOR P-FACILITY PROBLEMS (F-0008)	2256
<i>Wesley G. Almeida, Ernesto Araujo</i>	
MICOG DEFUZZIFICATION ROUGH-NEURO-FUZZY SYSTEM ENSEMBLE (F-0261)	2261
<i>Marcin Korytkowski, Robert Nowicki, Rafal Scherer, Leszek Rutkowski</i>	
MICROCALCIFICATION DETECTION IN MAMMOGRAMS USING INTERVAL TYPE-2 FUZZY LOGIC SYSTEM WITH AUTOMATIC MEMBERSHIP FUNCTION GENERATION (F-0534)	2267
<i>Suraphon Chumklin, Sansanee Auephanwiriyakul, Nipon Theera-Umpon</i>	
MIN-TRANSITIVITY OF GRADED COMPARISONS FOR RANDOM VARIABLES (F-0606)	2274
<i>Susana Montes, Davide Martinetti, Ignacio Montes, Susana Diaz</i>	
MITIGATING THE EFFECT OF BACKGROUND NOISE IN SOUND BASED HELICOPTER CONTROL (F-0410)	2282
<i>Benjamin N. Passow, Simon Coupland, Mario Gongora</i>	
MODELING LOSS AVERSION AND BIASED SELF-ATTRIBUTION USING A FUZZY AGGREGATION OPERATOR (F-0575)	2290
<i>Milan Lovric, Uzay Kaymak, Jaap Spronk</i>	
MODELING OF HUMAN INTENTION ESTIMATION PROCESS IN SOCIAL INTERACTION SCENE (F-0247)	2298
<i>Ayami Yokoyama, Takashi Omori</i>	
MODELLING OF DYNAMIC MICROMILLING CUTTING FORCES USING TYPE-2 FUZZY RULE-BASED SYSTEM (F-0201)	2304
<i>Qun Ren, Luc Baron, Krzysztof Jemielniak, Marek Balazinski</i>	
MODELLING PREFERENCE RELAXATION IN E-COMMERCE (F-0274)	2311
<i>Maciej Dabrowski, Acton Thomas</i>	
MOEA BASED HIERARCHICAL FUZZY CONTROL OVER THE SET OF USER-DEFINED INITIAL CONDITIONS (F-0139)	2319
<i>Juliusz Zajackowski, Brijesh Verma</i>	
MONOTONICITY OF IMPLICATIVE FUZZY MODELS (F-0468)	2327
<i>Martin Stepnicka, Bernard De Baets</i>	
MULTI SENSOR APPROACH TO DETECTION OF HEARTBEAT AND RESPIRATORY RATE AIDED BY FUZZY LOGIC (F-0243)	2334
<i>Kiyotaka Ho, Kenta Yamamoto, Naoki Tsuchiya, Hiroshi Nakajima, Kei Kuramoto, Syoji Kobashi, Yutaka Hata</i>	
MULTI-AGENT MEMETIC COMPUTING FOR ADAPTIVE LEARNING EXPERIENCES (F-0411)	2340
<i>Giovanni Acampora, Vincenzo Loia, Autilia Vitiello, Matteo Gaeta</i>	
MULTI-OBJECTIVE OPTIMIZATION UNDER POSITIVITY CONSTRAINTS, WITH A METEOROLOGICAL EXAMPLE (F-0097)	2348
<i>Aline Jaimes, Craig Tweedie, Tanja Magoc, Vladik Kreinovich, Martine Ceberio</i>	
MULTIPLE FUZZY NEURAL NETWORKS MODELING WITH SPARSE DATA (F-0567)	2355
<i>Cruz Vega Israel, Wen Yu, Juan Jose Cordova</i>	
NON-NEGATIVE MATRIX FACTORIZATION AND DECOMPOSITION OF A FUZZY RELATION (F-0120)	2362
<i>Barnabas Bede, Hajime Nobuhara, Imre J Rudas, Takanari Tanabata</i>	

NON-QUADRATIC STABILIZATION OF TAKAGI-SUGENO MODELS: A LOCAL POINT OF VIEW (F-0136)	2368
<i>Miguel Bernal, Thierry Marie Guerra, Abdelhafidh Jaadari</i>	
NONLINEAR SYSTEM MODELING VIA HYBRID SYSTEM REPRESENTATION OF RECURRENT FUZZY SYSTEMS (F-0035)	2374
<i>Andreas Schwung, Juergen Adamy</i>	
NONSINGULAR TERMINAL SLIDING CONTROL USING FUZZY WAVELET NETWORKS FOR MECANUM WHEELED OMNI-DIRECTIONAL VEHICLES (F-0195)	2381
<i>Ching-Chih Tsai, Hsiao-Lang Wu</i>	
OBSERVER-BASED ADAPTIVE FUZZY OUTPUT FEEDBACK CONTROL FOR BIPED ROBOTIC SYSTEMS (F-0124)	2387
<i>Wen-Shyong Yu</i>	
ON (WEIGHTED) K-ORDER FUZZY CONNECTIVES (F-0383)	2394
<i>Hoel Le Capitaine, Carl Frelicot</i>	
ON A FUZZY GROUP-BY CLAUSE IN SQLF (F-0016)	2402
<i>Patrick Bosc, Olivier Pivert</i>	
ON CONVERGENCE PROPERTIES OF THE SINGLEPASS AND ONLINE FUZZY C-MEANS ALGORITHM (F-0020)	2408
<i>Lawrence O. Hall, Dmitry B. Goldgof</i>	
ON FUZZY SEMANTIC WEB SERVICES (F-0163)	2411
<i>Fernando Bobillo, Ehsan Sharifi, Mohamad M. Ebadzadeh, Reza A. Moghadam</i>	
ON KERNEL FUZZY C-MEANS FOR DATA WITH TOLERANCE USING EXPLICIT MAPPING FOR KERNEL DATA ANALYSIS (F-0073)	2417
<i>Yuchi Kanzawa, Yasunori Endo, Sadaaki Miyamoto</i>	
ON LEARNING ANALYSIS OF NEURAL FUZZY SYSTEMS (F-0393)	2423
<i>Jen-Wei Yeh, Shun-Feng Su, Jin-Tsong Jeng, Bor-Sen Chen</i>	
ON NON-PDC LOCAL OBSERVERS FOR TS FUZZY SYSTEMS (F-0105)	2429
<i>Zsofia Lendek, Thierry Marie Guerra, Robert Babuska</i>	
ON THE COMPARISON OF FUZZY INTERPOLATION AND OTHER INTERPOLATION METHODS IN HIGH ACCURACY MEASUREMENTS (F-0005)	2436
<i>Ying Bai, Dali Wang</i>	
ON THE ROLE OF T-NORMS ON HYBRID FUZZY RESULT MERGING FOR METASEARCH (F-0230)	2443
<i>Arijit De, Elizabeth Diaz</i>	
ON THE SEMANTICS AND THE USE OF FUZZY COGNITIVE MAPS IN SOCIAL SCIENCES (F-0252)	2449
<i>Joao Paulo Carvalho</i>	
ON THE USE OF QUASI-ARITHMETIC MEANS FOR THE GENERATION OF EDGE DETECTION BLENDING FUNCTIONS (F-0316)	2455
<i>Carlos Lopez-Molina, Javier Fernandez, Aranzazu Jurio, Mikel Galar, Miguel Pagola</i>	
ON THE USE OF UNIFIED AND-OR FUZZY OPERATOR FOR DISTRIBUTED NODE EXHAUSTION ATTACK DECISION-MAKING IN WIRELESS SENSOR NETWORKS (F-0408)	2463
<i>Salman Khan, Zubair Baig</i>	
ON TWO PROPERTIES OF THE CONDITIONAL IN FUZZY LOGIC (F-0102)	2470
<i>Enric Trillas, Claudi Alsina, Itziar Garcia-Honrado</i>	
ON-LINE MONITORING OF OIL IN WATER USING TRANSMITTED-SCATTERED LIGHTS AND CLUSTERING-BASED HIERARCHICAL TSK FUZZY SYSTEMS (F-0512)	2476
<i>Gyeongdong Baek, Jaewoo Cho, Moon-Ho Choi, Sungshin Kim</i>	
ONLINE SELF-ORGANIZING ADAPTIVE FUZZY CONTROLLER: APPLICATION TO A NONLINEAR SERVO SYSTEM (F-0253)	2484
<i>Ana Belen Cara, Zsofia Lendek, Robert Babuska, Hector Pomares, Ignacio Rojas</i>	
ONTOLOGY MATCHING FOR THE SEMANTIC ANNOTATION OF IMAGES (F-0377)	2492
<i>Nicolas James, Konstantin Todorov, Celine Hudelot</i>	
ONTOLOGY-BASED INTELLIGENT SYSTEM FOR MALWARE BEHAVIORAL ANALYSIS (F-0365)	2500
<i>Hsien-Der Huang, Tsung-Yen Chuang, Yi-Lang Tsai, Chang-Shing Lee</i>	
OPPOSITIONAL FUZZY IMAGE THRESHOLDING (F-0453)	2506
<i>Fares Al-Qunaieer, Hamid R. Tizhoosh, Shahryar Rahnamayan</i>	
OPTIMIZATION MODEL FOR THE DESIGN OF WDM NETWORKS WITH FUZZY COSTS (F-0550)	2513
<i>Belen Melian, Jose L. Verdegay</i>	

ORDERED FUZZY WEIGHTED AVERAGES AND ORDERED LINGUISTIC WEIGHTED AVERAGES (F-0041)	2519
<i>Dongrui Wu, Jerry Mendel</i>	
OSCAR: AN INTELLIGENT CONVERSATIONAL AGENT TUTOR TO ESTIMATE LEARNING STYLES (F-0235)	2526
<i>Annabel Latham, Keeley Crockett, David Mclean, Bruce Edmonds, Karen O'Shea</i>	
OUTPUT TRACKING CONTROL FOR DISCRETE TIME-VARYING DELAY SYSTEMS VIA VIRTUAL REFERENCE MODEL BASED APPROACH (F-0219)	2534
<i>Teng-Shung Chiang, Chian-Song Chiu</i>	
OWL-FC ONTOLOGY WEB LANGUAGE FOR FUZZY CONTROL (F-0342)	2540
<i>Vincenzo Loia, Carmen De Maio, Giuseppe Fenza, Sabrina Senatore</i>	
PATTERN TREES FOR REGRESSION AND FUZZY SYSTEMS MODELING (F-0459)	2548
<i>Robin Senge, Eyke Huellermeier</i>	
PCA-GUIDED FUZZY CLUSTER VALIDATION WITH NOISE REJECTION (F-0049)	2555
<i>Katsuhiko Honda, Akira Notsu, Hidetomo Ichihashi, Tomohiro Matsui</i>	
POLYMORPHIC FUZZY SIGNATURES (F-0629)	2561
<i>B.S.U. Mendis, T. D. Gedeon</i>	
POSSIBILISTIC REASONING FOR TRUST-BASED ACCESS CONTROL ENFORCEMENT IN SOCIAL NETWORKS (F-0106)	2568
<i>Jordi Nin, Vicenc Torra</i>	
POSSIBILISTIC REGRESSION ANALYSIS OF INFLUENTIAL FACTORS IN THE PLANNING AND IMPLEMENTATION OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS (F-0402)	2574
<i>Azizul Azhar Ramli, Junzo Watada, Witold Pedrycz</i>	
PREFERENCE AND CAUSAL FUZZY MODELS FOR MANAGER'S DECISION AIDING IN INDUSTRIAL PERFORMANCE IMPROVEMENT (F-0446)	2582
<i>Jacky Montmain, Vincent Cliville, Lamia Berrah, Gilles Mauris, Bernard De Baets</i>	
PREPROCESSING VAGUE IMBALANCED DATASETS AND ITS USE IN GENETIC FUZZY CLASSIFIERS (F-0566)	2588
<i>Ana Palacios, Ines Couso, Luciano Sanchez</i>	
PROBABILISTIC AGGREGATION OPERATORS WITH THE INDUCED GENERALIZED OWA OPERATOR (F-0568)	2596
<i>Jose M. Merigo, Kurt J. Engemann</i>	
PROPERTY AND APPLICATION OF FUZZY ONTOLOGY FOR DIETARY ASSESSMENT (F-0094)	2602
<i>Mei-Hui Wang, Chang-Shing Lee, Zhi-Wei Chen, Chi-Fang Lo, Su-E Kuo, Hui-Ching Kuo, Hui-Hua Cheng</i>	
PROVIDING PRTOOLS WITH FUZZY RULE-BASED CLASSIFIERS (F-0370)	2610
<i>Marco Cococcioni, Eleonora D'Andrea, Beatrice Lazzerini</i>	
QUALITY OF MEASURES FOR ATTRIBUTE SELECTION IN FUZZY DECISION TREES (F-0612)	2618
<i>Christophe Marsala, Bernadette Bouchon-Meunier</i>	
QUERYING FUZZY RDFS SEMANTIC ANNOTATIONS (F-0467)	2626
<i>Afef Bahri, Rafik Bouaziz, Faiez Gargouri</i>	
RATIONAL COGNITIVE MULTI-AGENT SYSTEM WITH FUZZY LOGIC FOR A THREE (F-0290)	2634
<i>Alanis Arnulfo, Castillo Oscar, Garcia-Valdez Mario</i>	
REACTIVE AND PATH FOLLOWING CONTROL OF A MOBILE ROBOT IN A DISTRIBUTED ENVIRONMENT USING FUZZY LOGIC (F-0289)	2640
<i>Abraham Melendez, Arnulfo Alanis, Jose Soria, Oscar Castillo</i>	
REAL TIME HUMAN ACTIVITY RECOGNITION FROM WIRELESS SENSORS USING EVOLVING FUZZY SYSTEMS (F-0348)	2645
<i>Javier Andreu, Plamen Angelov</i>	
REAL-TIME COLOR TONE DETECTION ON VIDEOBASED ON THE FUZZY INTEGRAL (F-0465)	2653
<i>Anton Albajes-Eizagirre, Aureli Soria-Frisch, Vanel Lazcano</i>	
RECURRENT FUZZY NEURAL COMPUTATION: MODELING, LEARNING AND APPLICATION (F-0329)	2660
<i>Rosangela Ballini, Fernando Gomide</i>	
RECURSIVE GATH-GEVA CLUSTERING AS A BASIS FOR EVOLVING NEURO-FUZZY MODELING (F-0321)	2666
<i>Hossein Soleimani-B, Caro Lucas, Babak N. Araabi</i>	

REDUCING FALSE POSITIVES THROUGH FUZZY ALERT CORRELATION IN COLLABORATIVE INTELLIGENT INTRUSION DETECTION SYSTEMS - A REVIEW (F-0404)	2673
<i>Huwaida Elshoush, Izzeldin Osman</i>	
RELIABLE 3D RECONSTRUCTION EXTENDING PIXEL-LEVEL CERTAINTY MEASURES (F-0628)	2681
<i>Miquel Casamitjana, M. Claudia Perez, Joan Aranda, Eduard Montseny Enric X. Martin</i>	
REPRESENTING FUZZY ONTOLOGIES IN OWL 2 (F-0109)	2688
<i>Fernando Bobillo, Umberto Straccia</i>	
RHYTHM GENERATION METHOD FOR AUTOMATIC MUSICAL COMPOSITION USING GENETIC ALGORITHM (F-0312)	2694
<i>Yoichiro Maeda, Yusuke Kajihara</i>	
ROBUST ADAPTIVE FUZZY SLIDING MODE CONTROL FOR A CLASS OF PERTURBED STRICT-FEEDBACK NONLINEAR SYSTEMS (F-0147)	2701
<i>Chiang-Cheng Chiang, Ming-Chieh Shih, Chih-Lyang Hwang</i>	
ROBUST SMOOTH SLIDING TYPE-2 INTERVAL FUZZY CONTROL FOR UNCERTAIN SYSTEM (F-0305)	2706
<i>Malik Manceur, Najib Essounboul, Abdelaziz Hamzaoui</i>	
ROBUST STATIC OUTPUT FEEDBACK FUZZY CONTROL DESIGN FOR A CLASS OF NONLINEAR STOCHASTIC SYSTEMS (F-0206)	2714
<i>Chung-Shi Tseng, Bor-Sen Chen</i>	
ROBUST STATIC OUTPUT FEEDBACK FUZZY CONTROL DESIGN FOR NONLINEAR SYSTEMS WITH PERSISTENT BOUNDED DISTURBANCES: A SINGULAR VALUE DECOMPOSITION APPROACH (F-0015)	2720
<i>Chung-Shi Tseng, Hwa-Lu Jhi</i>	
ROBUSTNESS OF NEURAL ENSEMBLES AGAINST TARGETED AND RANDOM ADVERSARIAL LEARNING (F-0493)	2726
<i>Shir Li Wang, Kamran Shafi, Chris Lokan, Hussein Abbass</i>	
S-IMPLICATIONS IN THE SET OF DISCRETE FUZZY NUMBERS (F-0196)	2734
<i>Jaume Casasnovas, J.Vicente Riera</i>	
SCALABLE FUZZY NEIGHBORHOOD DBSCAN (F-0056)	2741
<i>Jonathon Parker, Lawrence Hall, Abraham Kandel</i>	
SEGMENTATION AND LINGUISTIC SUMMARIZATION OF VOXEL ENVIRONMENTS USING STEREO VISION AND GENETIC ALGORITHMS (F-0349)	2749
<i>Derek Anderson, Robert Luke, James Keller</i>	
SEGMENTATION AND OUTLIER REMOVAL IN 3D LINE IDENTIFICATION BASED ON FUZZY CLUSTERING (F-0360)	2757
<i>Ba Thach Nguyen, Sukhan Lee</i>	
SELECTIVE STABILIZATION OF TAKAGI-SUGENO FUZZY SYSTEMS (F-0285)	2765
<i>Eduardo S. Tognetti, Ricardo C. L. F. Oliveira, Pedro L. D. Peres</i>	
SEMANTIC HIERARCHICAL DOCUMENT SIGNATURE FOR DETERMINING SENTENCE SIMILARITY (F-0617)	2773
<i>Sukanya Manna, Tom Gedeon</i>	
SEMI-HARD C-MEANS CLUSTERING WITH APPLICATION TO CLASSIFIER DESIGN (F-0068)	2781
<i>Hidetomo Ichihashi, Akira Notsu, Katsuhiko Honda</i>	
SEMI-SUPERVISED AGGLOMERATIVE CLUSTERING ALGORITHMS WITH PAIRWISE CONSTRAINTS (F-0096)	2789
<i>Sadaaki Miyamoto, Akihisa Terami</i>	
SEMI-SUPERVISED INCREMENTAL LEARNING (F-0598)	2795
<i>Abdelhamid Bouchachia, Markus Prosegger, Hakan Duman</i>	
SIMILARITY MEASURES FOR PROTEIN STRUCTURES BASED ON FUZZY HISTOGRAM COMPARISON (F-0445)	2801
<i>Thomas Fober, Eyke Huellermeier</i>	
SIMPLE TUNING ALGORITHM IMPROVEMENTS FOR FUZZY LOGIC CONTROLLERS (F-0513)	2808
<i>Hector Alejandro Ortiz-de-la-Vega, Eduardo Gomez-Ramirez, Julio Cesar, Cortes-Rios</i>	
SIMPLE TYPE-2 T-S FUZZY CONTROL SYSTEM FOR GYROS (F-0095)	2816
<i>R. Rajesh, C. Thilagavathy, J. Satheshkumar, B. Shanmuga Priya, K. Priya, F Sureshkumar</i>	
SIMULATING EMOTIONAL PERSONALITY IN HUMAN COMPUTER INTERFACES (F-0303)	2822
<i>Albert van der Heide, Gracian Trivino</i>	
SIT-TO-STAND DETECTION USING FUZZY CLUSTERING TECHNIQUES (F-0506)	2829
<i>Tanvi Banerjee, James Keller, Marjorie Skubic, Carmen Abbott</i>	

SOCIAL JUDGMENT ADVISOR: AN APPLICATION OF THE PERCEPTUAL COMPUTER (F-0042)	2837
<i>Dongrui Wu, Jerry Mendel</i>	
SOFT COMPUTING APPROACHES TO IDENTIFY CELLULAR QUANTITY OF ARTIFICIAL CULTURE BONE (F-0242)	2845
<i>Naomi Yagi, Yoshitsugu Oshiro, Osamu Ishikawa, Keisuke Oe, Yutaka Hata</i>	
SOFT CONCEPTS FOR SOFT COMPUTING IN SOFT SCIENCES. ON 20 YEARS OF SOFT COMPUTING (F-0597)	2851
<i>Rudolf Seising</i>	
SPECIFICITY FOR INTERVAL-VALUED FUZZY SETS (F-0110)	2859
<i>Ramon Gonzalez del Campo, Luis Garmendia, Ronald R. Yager</i>	
STABILITY ANALYSIS AND STABILIZATION OF POLYNOMIAL FUZZY-MODEL-BASED CONTROL SYSTEMS USING PIECEWISE LINEAR MEMBERSHIP FUNCTIONS (F-0185)	2864
<i>H.K. Lam, Mohammad Narimani, F.H.F. Leung</i>	
STABILITY ANALYSIS FOR A TYPE OF PROPORTIONAL T-S FUZZY CONTROL SYSTEMS USING THE OFF-AXIS CIRCLE CRITERION (F-0131)	2872
<i>Kairui Cao, Xiaozhi Gao, Xiaojun Ban, Xianlin Huang</i>	
STABILITY ANALYSIS OF A CLASS OF MIMO FUZZY CONTROL SYSTEMS (F-0080)	2878
<i>Radu-Emil Precup, Marius L. Tomescu, Emil M. Petriu, Stefan Preitl, Janos Fodor, Daniela Barbulescu</i>	
STABILITY ANALYSIS OF DISCRETE TYPE-2 TSK FUZZY SYSTEMS WITH INTERVAL UNCERTAINTY (F-0288)	2884
<i>Saeed Jafarzadeh, M. Sami Fadali</i>	
STABILITY ANALYSIS OF NONLINEAR SYSTEMS VIA MULTIPLE MIXED MAX-MIN BASED LYAPUNOV FUNCTIONS (F-0086)	2892
<i>Kazuo Tanaka, Hiroshi Ohtake, Takehito Yamaguchi, Hua O Wang</i>	
STABILITY ANALYSIS OF SAMPLED-DATA OUTPUT-FEEDBACK POLYNOMIAL FUZZY-MODEL-BASED CONTROL SYSTEMS (F-0174)	2899
<i>H.K. Lam, Mohammad Narimani</i>	
STABILITY ANALYSIS OF SIRMS BASED TYPE-2 FUZZY LOGIC CONTROL SYSTEMS (F-0141)	2906
<i>Chengdong Li, Jianqiang Yi, Tiechao Wang</i>	
STABILIZATION OF FUZZY RETARDED SYSTEMS WITH INPUT AND STATE DELAYS (F-0079)	2913
<i>Ji-chang Lo, YuChi Wang</i>	
STABILIZATION OF NONLINEAR SYSTEMS WITH PIECEWISE BILINEAR MODELS DERIVED FROM FUZZY IF-THEN RULES WITH SINGLETONS (F-0548)	2919
<i>Tadanari Taniguchi, Michio Sugeno</i>	
STABLE INDIRECT ADAPTIVE FUZZY-NEURO CONTROL FOR A CLASS OF NONLINEAR SYSTEMS (F-0203)	2925
<i>Rong Haijun, Zhao Guangshe</i>	
STRENGTHENING FUZZY GRADUAL RULES THROUGH “ALL THE MORE” CLAUSES (F-0586)	2933
<i>Bernadette Bouchon-Meunier, Anne Laurent, Marie-Jeanne Lesot, Maria Rifqi</i>	
STUDY OF FAULT FEATURE EXTRACTION BASED ON KPCA OPTIMIZED BY PSO ALGORITHM (F-0300)	2940
<i>Hongxia Pan, Xiuye Wei, Jinying Huang</i>	
SUFFICIENT CONDITIONS FOR MONOTONICALLY CONSTRAINED FUNCTIONAL-TYPE SIRMS CONNECTED FUZZY SYSTEMS (F-0121)	2946
<i>Jinwook Kim, Jin S. Lee</i>	
SUPERVISORY CONTROL BASED FUZZY INTERVAL ARITHMETIC APPLIED FOR DISCRETE SCHEDULING OF MANUFACTURING SYSTEMS (F-0311)	2952
<i>Karim Tamani, Reda Boukezzoula, Georges Habchi</i>	
SUPPORT VECTOR-TRAINED RECURRENT FUZZY SYSTEM (F-0028)	2958
<i>I-Fang Chung, Chia-Feng Juang, Cheng-Da Hsieh</i>	
SWITCHED HYBRID DYNAMIC SYSTEMS IDENTIFICATION BASED ON PATTERN RECOGNITION APPROACH (F-0432)	2963
<i>Omar Ayad, Moamar Sayed-Mouchaweh, Patrice Billaudel</i>	
SYLPH: AN AMBIENT INTELLIGENCE BASED PLATFORM FOR INTEGRATING HETEROGENEOUS WIRELESS SENSOR NETWORKS (F-0152)	2970
<i>Dante I. Tapia, Ricardo S. Alonso, Fernando De la Prieta, Carolina Zato, Sara Rodriguez, Emilio Corchado, Javier Bajo, Juan M. Corchado</i>	

SYNCHRONIZATION CONTROL OF CHAOTIC SYSTEM USING ADAPTIVE RECURRENT WAVELET CMAC (F-0172)	2978
<i>Chih-Min Lin, Ming-Hung Lin, Hsin-Yi Li</i>	
SYNTAX LEARNING FOR THE DESCRIPTION OF SCENES COMPOSED OF GEOMETRIC SHAPES (F-0553)	2984
<i>David P. Pancho, Sergio Guadarrama</i>	
T-BEST APPROXIMATION IN INTUITIONISTIC FUZZY NORMED SPACES (F-0125)	2991
<i>Kavikumar Jacob, Azme Khamis, Manian N. S</i>	
TAKAGI-SUGENO TYPE FUZZY AUTOMATON MODEL (F-0275)	2997
<i>Janos Grantner, George Fodor</i>	
TEMPORAL AND SPATIAL EVOLVING KNOWLEDGE BASE SYSTEM WITH SEQUENTIAL CLUSTERING (F-0516)	3003
<i>Gancho Vachkov</i>	
TEMPORAL FUZZY BASED MODELING AS APPLIED TO THE CLASS OF MAN-MACHINE INTERACTION (F-0335)	3011
<i>Jamil Abou Saleh, Fakhreddine Karray</i>	
TEXT FRAGMENT EXTRACTION USING INCREMENTAL EVOLVING FUZZY GRAMMAR FRAGMENTS LEARNER (F-0265)	3019
<i>Nurfadhliina Mohd Sharef, Shen Yun</i>	
THE BEHAVIOR OF PARTICLES IN THE PARTICLE SWARM CLUSTERING ALGORITHM (F-0462)	3027
<i>Alexandre Szabo, Ana Karina Fontes Prior, Leandro Nunes de Castro</i>	
THE CHECKLIST PARADIGM BASED NON-COMMUTATIVE INTERVAL SYSTEMS OF EARLY ZADEH AND THEIR CRISPNESS AND FUZZINESS (F-0488)	3034
<i>Eunjin Kim</i>	
THE INTELLIGENT INTERACTION DEALER ROBOT (F-0045)	3042
<i>Rong-Jyue Wang, Jhe-Yu Lee, Jia-Ming Xu, Hsin-Yu Liu</i>	
THE MONOTONICITY AND CONVEXITY OF UNNORMALIZED INTERVAL TYPE-2 TSK FUZZY LOGIC SYSTEMS (F-0194)	3049
<i>Tiechao Wang, Jianqiang Yi, Chengdong Li</i>	
THE UNBALANCED LINGUISTIC ORDERED WEIGHTED AVERAGING OPERATOR (F-0182)	3056
<i>David Isern, Lucas Marin, Aida Valls, Antonio Moreno</i>	
THE VALUE OF DYNAMIC CLUSTERING OF BASE STATIONS FOR FUTURE WIRELESS NETWORKS (F-0310)	3064
<i>Agisilaos Papadogiannis, George Alexandropoulos</i>	
THE VARIABLE RADIUS COVERING PROBLEM WITH FUZZY TRAVEL TIMES (F-0145)	3070
<i>Soheil Davari, Muhammad Hussein Fazel Zarandi, Ahmad Hemmati, I. Burhan Turksen</i>	
THE YORKSHIRE ENTERPRISE FELLOWSHIP: A FRAMEWORK FOR SUCCESSFUL COMMERCIALIZATION OF COMPUTATIONAL INTELLIGENCE RESEARCH (F-0535)	3076
<i>Stephen Smith</i>	
TIME SERIES ANALYSIS BY DISCRETE F-TRANSFORM (F-0343)	3081
<i>Irina Perfilieva, Nadezhda Yarushkina, Tatjana Afanasieva</i>	
TIME SERIES FORECASTING USING A TSK FUZZY SYSTEM TUNED WITH SIMULATED ANNEALING (F-0026)	3085
<i>Majid Almarashi, Robert John, Simon Coupland, Adrian Hopgood</i>	
TOWARDS A MORE NATURAL PROOF OF METRIZATION THEOREM FOR SPACE-TIMES (F-0490)	3091
<i>Vladik Kreinovich, Olga Kosheleva</i>	
TOWARDS AN AUTOMATED REASONING FOR COMPUTING WITH WORDS (F-0517)	3099
<i>Elham S. Khorasani, Shahram Rahimi</i>	
TOWARDS AN INTERVAL-VALUED ESTIMATION OF THE DENSITY (F-0403)	3107
<i>Bilal Nehme, Olivier Strauss</i>	
TOWARDS IMPROVED TRAPEZOIDAL APPROXIMATION TO INTERSECTION (FUSION) OF TRAPEZOIDAL FUZZY NUMBERS: SPECIFIC PROCEDURE AND GENERAL NON-ASSOCIATIVITY THEOREM (F-0153)	3113
<i>Gang Xiang, Vladik Kreinovich</i>	
TOWARDS MORE DETAILED VALUE-ADDED TEACHER ASSESSMENTS (F-0519)	3119
<i>Karen Villaverde, Olga Kosheleva</i>	
TOWARDS MULTI-CORE PARALLEL FUZZY TREE MINING (F-0592)	3127
<i>Nicolas Sicard, Anne Laurent, Federico Del Razo Lopez, Perfecto Malaquias, Quintero Flores</i>	

TRANSITIVE CLOSURE OF L-FUZZY RELATIONS AND INTERVAL-VALUED FUZZY RELATIONS (F-0111)	3134
<i>Ramon Gonzalez del Campo, Luis Garmendia, Bernard De Baets</i>	
TRIGGER MODEL FOR GUIDING ARM MOVEMENT IN CIRCLE DRAWING (F-0524)	3142
<i>Norifumi Watanabe, Takashi Omori</i>	
TUNING OF A HIERARCHICAL FUZZY SYSTEM FOR VIDEO DE-INTERLACING (F-0481)	3148
<i>Piedad Brox, Iluminada Baturone, Santiago Sanchez-Solano</i>	
TWO NEW APPROACHES TO FEATURE SELECTION WITH HARMONY SEARCH (F-0263)	3154
<i>Ren Diao, Qiang Shen</i>	
TYPE $\mu_{1,1}$ FUZZY QUANTIFIERS DETERMINED BY FUZZY MEASURES (F-0216)	3161
<i>Antonin Dvorak, Michal Holcapek</i>	
TYPE III FUZZY IMPULSIVE SYSTEMS AND STABILITY ANALYSIS (F-0487)	3169
<i>Iman Zamani, Masoud Shafie</i>	
TYPE-2 DEFUZZIFICATION: TWO CONTRASTING APPROACHES (F-0268)	3176
<i>Sarah Greenfield, Francisco Chiclana, Simon Coupland, Robert John</i>	
TYPE-2 FUZZY CONCEPTUAL SPACES (F-0169)	3183
<i>John Rickard, Janet Aisbett, Greg Gibbon</i>	
TYPE-2 FUZZY LOAD REGULATION OF A SERVOMECHANISM WITH BACKLASH USING ONLY MOTOR POSITION MEASUREMENTS (F-0245)	3191
<i>Nohe R. Cazarez-Castro, Luis T. Aguilar, Oscar Castillo, Juan R. Castro</i>	
UNCERTAINTY MODELING IN DYNAMIC CLUSTERING - A SOFT COMPUTING PERSPECTIVE (F-0590)	3199
<i>Georg Peters, Richard Weber, Fernando Crespo</i>	
UPDATING GENERALIZED ASSOCIATION RULES WITH EVOLVING FUZZY TAXONOMIES (F-0589)	3205
<i>Wen-Yang Lin, Ming-Cheng Tseng, Ja-Hwung Su</i>	
USER MODELING: THROUGH STATISTICAL ANALYSIS AND AN EVOLVING CLASSIFIER (F-0541)	3211
<i>Jose Antonio Iglesias, Plamen Angelov, Agapito Ledezma, Araceli Sanchis</i>	
USING A FUZZY AGENT IN MODELING LEAD-ACID BATTERY OPERATING IN GRID CONNECTED WIND ENERGY CONVERSION SYSTEMS (F-0546)	3219
<i>Mohamed Ibrahim, Amr Khairy, Hani Hagrass, Mina Zaher</i>	
USING AN EVOLUTIONARY FUZZY REGRESSION FOR AFFECTIVE PRODUCT DESIGN (F-0044)	3227
<i>Kit Yan Chan, T. S. Dillon, C. K. Kwong</i>	
USING FORDBMS FOR THE LINGUISTIC DESCRIPTION OF IMAGES (F-0618)	3235
<i>Sergio Jaime-Castillo, Juan Miguel Medina, Daniel Sanchez</i>	
USING FUZZY SETS TO MODEL INFORMATION PROVIDED BY SOCIAL TAGGING (F-0561)	3243
<i>Ronald R. Yager, Marek Z. Reformat</i>	
USING INTERVAL TYPE-2 FUZZY LOGIC TO TRANSLATE EMOTION WORDS FROM SPANISH TO ENGLISH (F-0529)	3251
<i>Abe Kazemzadeh</i>	
USING SOFT CONSTRAINTS TO LEARN SEMANTIC MODELS OF DESCRIPTIONS OF SHAPES (F-0555)	3259
<i>Sergio Guadarrama, David P. Pancho</i>	
USING TYPE-II FUZZY FUNCTION FOR DIAGNOSING BRAIN TUMORS BASED ON IMAGE PROCESSING APPROACH (F-0030)	3267
<i>Muhammad Hussein Fazel Zarandi, Marzieh Zarinbal, Amir Zarinbal, I. Burhan Turksen, Mina Izadi</i>	
VALUE OF INFORMATION AND SOLUTION UNDER VAR CRITERION FOR FUZZY RANDOM OPTIMIZATION PROBLEMS (F-0087)	3275
<i>Shuming Wang, Junzo Watada</i>	
VARIANCE ANALYSIS AND BIOMEDICAL PATTERN CLASSIFICATION (F-0183)	3281
<i>Nick Pizzi, Aleksander Demko, Witold Pedrycz</i>	
VISUALIZATION OF SIMILARITY RELATIONSHIPS BY ONOMATOPOEIA THESAURUS MAP (F-0491)	3289
<i>Yutaro Tomoto, Tsuyoshi Nakamura, Masayoshi Kanoh, Takanori Komatsu</i>	

WHY POLYNOMIAL FORMULAS IN SOFT COMPUTING, DECISION MAKING, ETC.? (F-0078)	3295
<i>Olga Kosheleva, Martine Ceberio</i>	
XFHL: A TOOL FOR THE INDUCTION OF HIERARCHICAL FUZZY SYSTEMS (F-0600)	3300
<i>Sergio Cala, Francisco J. Moreno-Velo</i>	

ADDITIONAL PAPERS:

DETECTING ILLEGAL FILE SHARING IN PEER-TO-PEER NETWORKS USING FUZZY QUERIES	3306
<i>Marlene Goncalves, Graciela Perera, Stephen Rodabaugh</i>	
UNDERLYING SYSTEM USING DYNAMIC CLUSTERING AND STRUCTURAL SIMILARITY	3313
<i>Hernando Castaneda M., Eliezer Colina M., Wladimir Rodriguez G., Carlos Parra O.</i>	
Author Index	