

# 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)

## Final Program

**Monday, June 27, 2011**

W01-1 SS06	Workshop	Fuzzy Approaches to Ambient IntelligenceIntelligent Agents	Vincenzo Loia and Hani Hagrass	Monday, June 27, 9:00AM-10:30AM	Egret
9:00AM	543	Gesture-Based Hybrid Approach for HCI in Ambient Intelligent Environmmments Stefano Carrino, Elena Mugellini, Omar Abou Khaled and Rolf Ingold			
9:20AM	446	Understanding the Unknown: Unattested Input Processing in Natural Language Julia M. Taylor and Victor Raskin			
9:40AM	424	A Fuzzy Agent-based Approach to Trust-based Competency Management Matteo Gaeta, Francesco Orciuoli, Sabrina Senatore and Vincenzo Loia			
W02	Workshop	Standards in Computational Intelligence	Giovanni Acampora, Plamen Angelov, and Bruno Di Stefano	Monday, June 27, 9:00AM-10:30AM	Swallow
9:00AM	166	New Evolution Algorithm Based On The Standard Particle Swarm Optimization Lipeng Wang, Yangjie Cheng and Liu Dong C			
W01-2 SS06	Workshop	Fuzzy Approaches to Ambient IntelligenceIntelligent Agents	Vincenzo Loia and Hani Hagrass	Monday, June 27, 11:00AM-12:30PM	Egret
11:00AM	375	Intrusion Detection Systems Adapted from Agent-based Artificial Immune Systems Chung-Ming Ou, Yao-Tien Wang and C.R. Ou			
11:20AM	309	An Adaptive Multi-Agent Memetic System for Personalizing e-Learning Experiences Giovanni Acampora, Matteo Gaeta, Enrique Munoz and Autilia Vitiello			
11:40AM	425	A hybrid context aware system for tourist guidance based on collaborative filtering Giuseppe Fenza, Enrico Fischetti, Domenico Furno and Vincenzo Loia			
12:00PM	473	Trainable Estimators for Indirect People Counting: A Comparative Study Giovanni Acampora, Vincenzo Loia, Gennaro Percannella and Mario Vento			

<b>FC</b>	<b>Competition</b>	<b>Fuzzy Competition</b>	<b>Hao Ying</b>	<b>Monday, June 27, 11:00AM-12:30PM</b>	<b>Swallow</b>
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11:00AM 475 A TSK Neuro-Fuzzy Approach for Modeling Highly Dynamic Systems  
Giovanni Acampora

<b>W03-1</b>	<b>Workshop</b>	<b>Computational Intelligence Techniques for Smart Grids</b>	<b>Alfredo Vaccaro</b>	<b>Monday, June 27, 1:30PM-3:00PM</b>	<b>Crane</b>
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1:30PM 286 A Bacterial Foraging PSO - DE Algorithm for Solving Reserve Constrained Dynamic Economic Dispatch Problem  
Praveena Pillala, Vaisakh Kanchapogu and Rama Mohana Rao Sanchana

1:50PM 384 A Noisy Data Regression Model Based on General Regression Neural Networks  
Shih-Chun Shao, Wen-Hui Chen and Jun-Horng Chen

2:10PM 431 Estimation of Load Model Parameters from Instantaneous Voltage and Current  
Pawel Regulski, Francisco Gonzalez-Longatt and Vladimir Terzija

<b>W04-1</b>	<b>Workshop</b>	<b>Computer Game and Fuzzy-based Game Applications</b>	<b>Shun-Chin Hsu, I-Chen Wu, and Shi-Jim Yen</b>	<b>Monday, June 27, 1:30PM-3:00PM</b>	<b>Egret</b>
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1:30PM 170 Apply Different Fuzzy Integrals in Unit Selection Problem of Real Time Strategy Game  
Y.J. Li, Peter H.F. Ng, H.B. Wang, S.C.K. Shiu and Y. Li

1:50PM 479 Unit Formation Planning in RTS game by using Potential Field and Fuzzy Integral  
Ng Peter, Li Y. J. and Shiu Simon

2:10PM 505 Elimination Search for puzzle games : An Application for Hashi Solver  
Shi-Jim Yen, Shih-Yuan Chiu, Cheng-Wei Chou and Tsan-Cheng Su

2:30PM 507 An efficient algorithm for solving Fillomino  
Shi-Jim Yen, Tsan-Cheng Su and Shun-Chin Hsu

<b>W05-1</b>	<b>Workshop</b>	<b>Hybrid Computational Intelligence Applications</b>	<b>Chuan-Kang Ting and Tzung-Pei Hong</b>	<b>Monday, June 27, 1:30PM-3:00PM</b>	<b>Swallow</b>
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1:30PM 302 Symbiotic Neuron Evolution of a Neural-Network-Aided Grey Model for Time Series Prediction  
Shih-Hung Yang and Yon-Ping Chen

1:50PM 315 A Hybrid Computational Intelligence Approach for Automatic Music Composition  
Giovanni Acampora, Jose Manuel Cadenas, Roberto De Prisco, Vincenzo Loia, Enrique Munoz and Rocco Zaccagnino

2:10PM 503 A Study of a Hybrid Evolutionary Fuzzy Model for Stock Selection  
Chien-Feng Huang, Chih-Hsiang Chang, Bao Rong Chang and Dun-Wei Cheng

2:30PM 526 Upper-Bound Multiple Fuzzy Frequent-Pattern Trees  
Tzung-Pei Hong, Chun-Wei Lin, Tsung-Ching Lin and Shing-Tai Pan

<b>W03-2</b>	<b>Workshop</b>	<b>Computational Intelligence Techniques for Smart Grids</b>	<b>Alfredo Vaccaro</b>	<b>Monday, June 27, 3:30PM-5:00PM</b>	<b>Crane</b>
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3:30PM 441 Exploiting Timed Automata Based Fuzzy Controllers for Voltage regulation in Smart Grids  
Giovanni Acampora, Vincenzo Loia and Autilia Vitiello

3:50PM 411 A Novel Fuzzy System for Wind Turbines Reactive Power Control  
Pierluigi Siano

4:10PM 282 Terminal Sliding Mode Controlled CVCF Inverters  
En-Chih Chang, Li-Peng Yin, Rong-Ching Wu and Lung-Sheng Yang

<b>W05-2</b>	<b>Workshop</b>	<b>Hybrid Computational Intelligence Applications</b>	<b>Chuan-Kang Ting and Tzung-Pei Hong</b>	<b>Monday, June 27, 3:30PM-5:00PM</b>	<b>Swallow</b>
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3:30PM 584 Differential Evolution to Enhance Localization of Mobile Robots  
Michael Lisowski, Zhun Fan and Ravn Ole

3:50PM 571 Fuzzy C-Means Clustering Based Construction And Training For Second Order RBF Network  
Kanishka Tyagi, Xun Cai and Michael Manry

# 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)

## Final Program

**Tuesday, June 28, 2011**

SS02-1	Special Session	Evolutionary Fuzzy Systems	Rafael Alcalá	Tuesday, June 28, 8:00AM-10:20AM	Swan
8:00AM	320	Evolutionary Learning of a Laser Pointer Detection Fuzzy System for an Environment Control System. Chavez de la O Francisco, Fernandez de Vega Francisco, Alcalá Fernandez Rafael, Alcalá Fernandez Jesus and Herrera Trigeros Francisco			
8:20AM	606	A Meta-Fuzzy Classifier for Specifying Appropriate Fuzzy Partitions by Genetic Fuzzy Rule Selection with Data Complexity Measures Yusuke Nojima, Shinya Nishikawa and Hisao Ishibuchi			
8:40AM	586	Assessing The Effects Of Zero Abundance Data On Habitat Preference Modelling Using A Genetic Takagi-Sugeno Fuzzy Model Shinji Fukuda			
9:00AM	512	A Multiple-Level Genetic-Fuzzy Mining Algorithm Chun-Hao Chen, Tzung-Pei Hong and Yeong-Chyi Lee			
9:20AM	314	An Architecture for Constructing Fuzzy Regression Tree Forests Using Opt-aiNet Fathi Gasir, Zuhair Bandar and Keeley Crockett			
9:40AM	456	Fuzzy C-Means Clustering and Partition Entropy for Species-Best Strategy and Search Mode Selection in Nonlinear Optimization by Differential Evolution Tetsuyuki Takahama and Setsuko Takahama			
SS12-1	Special Session	Recent Advances in Fuzzy-Model-Based Control Systems	H. K. Lam	Tuesday, June 28, 8:00AM-10:20AM	Peacock
8:00AM	228	LMI-Based Stability Conditions for Interval Type-2 Fuzzy-Model-Based Control Systems H.K. Lam, Mohammad Narimani and L.D. Seneviratne			
8:20AM	54	Robust H-infinite Fuzzy Observer for A Class of Time-Delay Discrete Fuzzy Bilinear Systems with Parameter Uncertainties Shun-Hung Tsai, Ta-Tau Chen, Ming-Ying Hsiao and Chin-Sheng Chen			
8:40AM	39	Sum of Squares Solutions Assuring Non-quadratic Discrete Stability Ji-Chang Lo and Jhen-Shun Kao			

- 9:00AM 122 Output Feedback Control for Discrete-Time Takagi-Sugeno Fuzzy Systems  
Nao Ueno, Yuzu Uchida and Jun Yoneyama
- 9:20AM 156 Decentralized control of large scale switched Takagi-Sugeno systems  
Dalel Jabri, Kevin Guelton and Noureddine Manamanni
- 9:40AM 381 Some Refinements for Non quadratic Stabilization of continuous TS Models  
Thierry Marie Guerra, Abdelhafidh Jaadari, Juntao Pan and Antonio Sala
- 10:00AM 496 Adaptive fault estimation design for T-S fuzzy systems with interval time varying delay  
Hamdi Gassara and Ahmed EL Hajjaji

<b>SS14</b>	<b>Special Session</b>	<b>Advances in Fuzzy Theory and their Applications</b>	<b>Shyi-Ming Chen</b>	<b>Tuesday, June 28, 8:00AM-10:20AM</b>	<b>Phoenix</b>
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- 8:00AM 399 Fast Extracting of Change Area from Remote Sensing Image by Fuzzy Theory and Case Base Reasoning  
Ting-shiuan Wang and Teng-to Yu
- 8:20AM 253 Weights-Learning for Weighted Fuzzy Rule Interpolation in Sparse Fuzzy Rule-Based Systems  
Shyi-Ming Chen and Yu-Chuan Chang
- 8:40AM 458 On The Type-2 Fuzzy Thresholding Protocol For Event-Driven Wireless Sensor Networks  
Chung-Ming Own
- 9:00AM 350 A Theoretical Approach to Liu's Generalized Lambda-Fuzzy Measure  
Hsiang-Chuan Liu and Tung-Sheng Liu
- 9:20AM 387 A Fuzzy Intelligent Decision Support System for Typhoon Disaster Managemen  
Wang-Kun Chen, GuangJun Sui and DangLing Tang
- 9:40AM 190 A Robust Fuzzy Trajectory Estimation Design of High Speed Reentry Vehicles  
Yung-Yue Chen and Chung-Shi Tseng
- 10:00AM 535 Data-driven Based 3-D Fuzzy Logic Controller Design Using Nearest Neighborhood Clustering and Linear Support Vector Regression  
Zhang Xianxia, Jiang Ye, Zou Tao, Qi Chenkun and Cao Guitao

<b>SS28-1</b>	<b>Special Session</b>	<b>Current Development in Pattern Classification-Kernelization, Pairwise Constraints, and Classifiers</b>	<b>Yasunori Endo</b>	<b>Tuesday, June 28, 8:00AM-10:20AM</b>	<b>Crane</b>
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- 8:00AM 276 A Method of Explicit Mappings for Kernel Data Analysis and Applications  
Sadaaki Miyamoto and Keisuke Sawazaki

- 8:20AM 77 Comparison of Scaling Behavior Between Fuzzy c-Means Based Classifier with Many Parameters and LibSVM  
Hidetomo Ichihashi, Katsuhiro Honda and Akira Notsu
- 8:40AM 106 Ellipse Detection with Hard c-Regression Models and Random Initializations  
Hidetomo Ichihashi, Li Chieu Lam, Katsuhiro Honda and Akira Notsu
- 9:00AM 141 Trajectory Anonymization From a Time Series Perspective  
Sergi Martinez-Bea and Vicenc Torra
- 9:20AM 205 On Some Clustering Approaches For Graphs  
Klara Stokes and Vicenc Torra
- 9:40AM 57 A Study on Regularization Effects of Fuzzified Memberships in FCM Clustering  
Katsuhiro Honda, Yui Matsumoto, Akira Notsu and Hidetomo Ichihashi
- 10:00AM 75 Constrained Agglomerative Hierarchical Clustering Algorithms with Penalties  
Sadaaki Miyamoto and Akihisa Terami

SS16 SS11	Special Session	Fuzzy Interpolation & Large-Scale Clustering	Qiang Shen and Timothy Havens	Tuesday, June 28, 8:00AM-10:20AM	Egret
8:00AM	226	Adaptive Fuzzy Interpolation with Prioritized Component Candidates Longzhi Yang and Qiang Shen			
8:20AM	558	Fuzzy Rule Interpolation in Embedded Behaviour-based Control Szilveszter Kovacs			
8:40AM	119	An Evolutionary-Based Similarity Reasoning Scheme for Monotonic Multi-Input Fuzzy Inference Systems Tay Kai Meng and Lim Chee Peng			
9:00AM	326	Fuzzy Rule Interpolation Based on Interval Type-2 Gaussian Fuzzy Sets and Genetic Algorithms Shyi-Ming Chen and Yu-Chuan Chang			
9:20AM	546	Double-Linear Fuzzy Interpolation Method Marcin Detyniecki, Christophe Marsala and Maria Rifqi			
9:40AM	443	Speedup of Fuzzy and Possibilistic Kernel c-Means for Large-Scale Clustering Timothy Havens, Radha Chitta, Anil Jain and Rong Jin			
10:00AM	397	Adaptive Fuzzy Interpolation with Uncertain Observations and Rule Base Longzhi Yang and Qiang Shen			

<b>T2FL&amp;FPR</b>	<b>Oral</b>	<b>Type-2 Fuzzy Logic and Fuzzy Pattern Recognition</b>	<b>Frank Chung-Hoon Rhee</b>	<b>Tuesday, June 28, 8:00AM-10:20AM</b>	<b>Swallow</b>
8:00AM	590	General Type-2 Fuzzy Membership Function Design and its Application to Neural Networks Eun-A Shim and Frank Chung-Hoon Rhee			
8:20AM	510	Human Action Recognition via Sum-Rule Fusion of Fuzzy K-Nearest Neighbor Classifiers Teck Wee Chua, Karianto Leman and Nam Trung Pham			
8:40AM	150	Fuzzy Clustering with Multiple Kernels Naouel Baili and Hichem Frigui			
9:00AM	52	Kernel-Based Fuzzy Clustering of Interval Data Bruno Pimentel, Anderson Costa and Renata Souza			
9:20AM	208	Short Term Load Forecasting Using Interval Type-2 Fuzzy Logic Systems Abbas Khosravi, Saeid Nahavandi and Doug Creighton			
9:20AM	528	An Adaptive Type-2 Input Based Non-Singleton Type-2 Fuzzy Logic System for Real World Applications Nazanin Sahab and Hani Hagra			
9:40AM	72	Hospital Service Quality Evaluation: A Fuzzy Preference Relation Approach Tsong-Han Chang			

<b>FA-1</b>	<b>Oral</b>	<b>Fuzzy Applications</b>	<b>Hisao Ishibuchi</b>	<b>Tuesday, June 28, 8:00AM-10:20AM</b>	<b>Grand Ballroom II</b>
8:00AM	49	Structural Analysis on Team Internal Soft Factors to Project Success Jyh-Fu (Don) Jeng			
8:20AM	100	A Robust Portfolio Selection Problem based on a Confidence Interval with Investor's Subjectivity Takashi Hasuike and Hideki Katagiri			
8:40AM	412	On Some Fuzzy Relations for Color Information Daniel Sanchez, Jose Manuel Soto-Hidalgo, Jesus Chamorro-Martinez and Pedro Martinez-Jimenez			
9:00AM	463	The Positioning control of an Electro-Hydraulic Variable Rotational Speed Pump-Controlled System Using Adaptive Fuzzy Controller with Self-tuning Fuzzy Sliding Mode Compensation Lian-Wang Lee, I-Hsum Li, Chung-Chieh Chen and Jun-Yi Huang			
9:20AM	605	Toward Quantitative Definition of Explanation Ability of Fuzzy Rule-based Classifiers Hisao Ishibuchi and Yusuke Nojima			

9:40AM 81 Multi-level Multi-Objective Decision Problem through Fuzzy Random Regression based Objective Function  
Nureize Arbaiy and Junzo Watada

10:00AM 612 A Fuzzy Toolbox for the R Programming Language  
Christian Wagner, Simon Miller and Jonathan M. Garibaldi

<b>PS01</b>	<b>Poster</b>	<b>Poster Session I</b>	<b>Tuesday, June 28, 2:30PM-4:30PM</b>	<b>Grand Ballroom II</b>
P101	22	A fuzzy hypothesis test based model for customer satisfaction measurement (Case study in PARS KHODRO CO.) Naimeh Borjalilu, Mahdi Zowghi and Abdolhamid Eshraghniae Jahromi		
P102	29	Permutation Flow Shop Scheduling: Fuzzy Particle Swarm Optimization Approach S. H. Ling, F. Jiang, K. Y. Chan and H. T. Nguyen		
P103	67	Patent Valuation with a Fuzzy Binomial Model Xiaolu Wang		
P104	70	Natural Topology via Fuzzy Metric Fagner Santana and Regivan Santiago		
P105	79	Fault diagnosis of turbine using an improved intuitionistic fuzzy cross entropy approach Hung Kuo-Chen, Lin Kuo-Ping and Weng Chia-Chun		
P106	91	Fuzzy delta separation axioms Seok Jong Lee and Sang Min Yun		
P107	101	Clustering Data and Imprecise Concepts Zengchang Qin and Weifeng Zhang		
P108	102	Fuzzy Variable Structure Control for PWM Inverters En-Chih Chang and Josep M. Guerrero		
P109	103	An Adaptive Fuzzy Logic Controller based on Real Coded Quantum-Inspired Evolutionary Algorithm Pintu Shill, Amjad Hossain, Faijul Amin and Kazuyuki Murase		
P110	116	An Efficient Hybrid Particle Swarm Optimization for the Job Shop Scheduling Problem Xue-Feng Zhang, Miyuki Koshimura, Hiroshi Fujita and Ryuzo Hasegawa		
P111	117	A Framework of Multi-characteristics Fuzzy Dynamic Scheduling for Parallel Video Processing on MPSoC Architecture Da Li, Yibin Hou, Zhangqin Huang and Chunhua Xiao		



- P112 127 The Derivation of the Analytical Structure of a class of Interval Type-2 fuzzy PD and PI controllers  
Maowen Nie and Woei Wan Tan
- P113 138 Estimation of the Asymptotic Stability Region of Uncertain Fuzzy Systems with Bounded Controllers Using Variable Structure System Design Approach  
Chung-Chun Kung, Ti-Hung Chen, Shuo-Chieh Chang and Chih-Chieh Chen
- P114 157 A Study on Atanassov's Intuitionistic Fuzzy Graphs  
Karunambigai M g, Parvathi Ra and Kalaivani O k
- P115 159 Fuzzy Controller Based Output Power Leveling Enhancement for a Permanent Magnet Synchronous Generator  
Abdul Motin Howlader, Naomitsu Urasaki, Shantanu Chakraborty, Atsushi Yona, Tomonobu Senjyu and Ahmed Y. Saber
- P116 548 Important Issues To Be Considered In Developing Fuzzy Cognitive Maps  
Costas Neocleous, Christos Schizas and Maria Papaioannou
- P117 613 A Fall Detection Study on the Sensors Placement Location and a Rule-Based Multi-Thresholds Algorithm Using Both Accelerometer and Gyroscopes  
Donald Lie, Jerene Jacob and Nguyen Tam
- P118 196 A Fuzzy Representation for Non-additive Weights of AHP  
Shin-ichi Ohnishi, Takahiro Yamanoi and Hideyuki Imai
- P119 192 A social cognitive framework of knowledge contribution in the online community  
Fan-Chuan Tseng and Feng-Yuan Kuo
- P120 188 Fuzzy Clustering of Large-Scale Data Sets Using Principal Component Analysis  
Sassi Minyar and Arfaoui Olfa
- P121 168 Soft Subspace Clustering with Competitive Agglomeration  
Lin Zhu, Longbing Cao and Jie Yang

SS05	Special Session	Fuzzy Robotics	Honghai Liu	Tuesday, June 28, 2:50PM-4:30PM	Swan
2:50PM	96	Hand Motion Recognition via Fuzzy Active Curve Axis Gaussian Mixture Models: A Comparative Study Ju Zhaojie and Liu Honghai			
3:10PM	294	Trajectory-based Control under ZMP Constraint for the 3D Biped Walking via Fuzzy Control Hsiu-Ming Wu and Chih-Lyang Hwang			

- 3:30PM 565 Formation Behavior of Multiple Robots based on Tele-operation  
Yuki Wagatsuma, Yuichiro Toda and Naoyuki Kubota
- 3:50PM 521 Evaluation of Pointing Navigation Interface for Mobile Robot with Spherical Vision System  
Kyohei Yoshida, Fuminori Hibino, Yasutake Takahashi and Yoichiro Maeda
- 4:10PM 341 Fuzzy PID Controller Design for Artificial Finger based SMA Actuators  
Alireza Khodayari, Mohammad Mahdi Kheirikhah and Maryam Talari

<b>SS18</b>	<b>Special Session</b>	<b>Recent Advances in Fuzzy Logic in Image Processing</b>	<b>Mike Nachtgeael</b>	<b>Tuesday, June 28, 2:50PM-4:30PM</b>	<b>Peacock</b>
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- 2:50PM 557 Fuzzy shape Classification exploiting Geometrical and Moments Descriptors  
Ugo Erra and Sabrina Senatore
- 3:10PM 452 Piece-wise Convex Spatial-Spectral Unmixing of Hyperspectral Imagery using Possibilistic and Fuzzy Clustering  
Alina Zare and Paul Gader
- 3:30PM 603 Detection of Hyperintense Regions on MR Brain Images using a Mamdani Type Fuzzy Rule-Based System  
F. Xavier Aymerich, Eduard Montseny, Pilar Sobrevilla and Alex Rovira
- 3:50PM 360 On Fuzzy Partitions for Visual Texture Modelling  
Jesus Chamorro-Martinez, Pedro Manuel Martinez-Jimenez and Jose Manuel Soto-Hidalgo

<b>SS27</b>	<b>Special Session</b>	<b>Communication Robotics and Computational Intelligence Co-creation</b>	<b>Yoichi Yamazaki</b>	<b>Tuesday, June 28, 2:50PM-4:30PM</b>	<b>Phoenix</b>
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- 2:50PM 176 Educational System with the Android Robot SAYA and Field Trial  
Takuya Hashimoto, Naoki Kato and Hiroshi Kobayashi
- 3:10PM 113 Multimodal Gesture Recognition Based on Choquet Integral  
Kaoru Hirota, Hai An Vu, Phuc Quang Le, Chastine Fatichah and Zhentao Liu
- 3:30PM 172 Emotional States Based 3-D Fuzzy Atmosfield for Casual Communication between Humans and Robots  
Zhentao Liu, Min Wu, Danyun Li, Fangyan Dong, Yoichi Yamazaki and Kaoru Hirota
- 3:50PM 455 Presence Expression Using Eye Robot for Computer Go System  
Yoichi Yamazaki, Masaya Hanada, Chang-Shing Lee, Takuya Hashimoto, Fangyan Dong, Makoto Motoki and Kaoru Hirota
- 4:10PM 367 Emotion Recognition based on Human Gesture and Speech Information using RT Middleware  
An Hai Vu, Yoichi Yamazaki, Fangyan Dong and Kaoru Hirota

<b>SS28-2</b>	<b>Special Session</b>	<b>Current Development in Pattern Classification-Kernelization, Pairwise Constraints, and Classifiers</b>	<b>Yasunori Endo</b>	<b>Tuesday, June 28, 2:50PM-4:30PM</b>	<b>Crane</b>
2:50PM	108	FCMdd-type Linear Fuzzy Clustering for Incomplete Non-Euclidean Relational Data Takeshi Yamamoto, Katsuhiko Honda, Akira Notsu and Hidetomo Ichihashi			
3:10PM	295	Hybrid Objective Function of Fuzzy c-Varieties and Cross-shape Fuzzy Cluster Extraction Daisuke Yoshida, Katsuhiko Honda, Akira Notsu and Hidetomo Ichihashi			
3:30PM	114	Kernelized Fuzzy c-Means Clustering for Uncertain Data using Quadratic Penalty-Vector Regularization with Explicit Mappings Yasunori Endo, Isao Takayama, Yukihiro Hamasuna and Sadaaki Miyamoto			
3:50PM	125	On Mahalanobis Distance Based Fuzzy c-Means Clustering for Uncertain Data Using Penalty Vector Regularization Yukihiro Hamasuna, Yasunori Endo and Sadaaki Miyamoto			
4:10PM	177	On Hard and Fuzzy c-Means Clustering with Conditionally Positive Definite Kernel Yuchi Kanzawa, Yasunori Endo and Sadaaki Miyamoto			
<b>SS42-1</b>	<b>Special Session</b>	<b>Fuzzy Cognitive Maps-Theory and Applications</b>	<b>Elpiniki I. Papageorgiou and Sebastian Lozano</b>	<b>Tuesday, June 28, 2:50PM-4:30PM</b>	<b>Egret</b>
2:50PM	477	Intuitionistic Fuzzy Reasoning with Cognitive Maps Dimitris Iakovidis and Elpiniki Papageorgiou			
3:10PM	516	Review study on Fuzzy Cognitive Maps and their applications during the last decade Elpiniki Papageorgiou			
3:30PM	361	Nonlinear Cause-Effect Relationships In Fuzzy Cognitive Maps Maria Ketipi, Dimitrios Koulouriotis, Evangelos Karakasis, George Papakostas and Vassilios Tourassis			
3:50PM	567	Case Based Fuzzy Cognitive Maps (CBFCM) : New method for medical reasoning Nassim Douali, Elpiniki Papageorgiou, Jos De Roo and Marie-Christine Jaulent			
4:10PM	343	Training Fuzzy Cognitive Maps by Using Hebbian Learning Algorithms: A Comparative Study George Papakostas, Athanasios Polydoros, Koulouriotis Dimitrios and Tourassis Vasileios			
<b>SS21-1</b>	<b>Special Session</b>	<b>Fuzzy Control in Industrial and Application</b>	<b>Shun-Hung Tsai</b>	<b>Tuesday, June 28, 2:50PM-4:30PM</b>	<b>Swallow</b>
2:50PM	126	Applications of Fuzzy Classification with Fuzzy C-Means Clustering and Optimization Strategies for Load Identification in NILM Systems Yu-Hsiu Lin, Men-Shen Tsai and Chin-Sheng Chen			

- 3:10PM 347 Knowledge-Based Fuzzy Imbalanced Force Compensator Design for a Single Active Magnetic Bearing Suspended Rotor System  
Yi Hua Fan and Ying Tsun Lee
- 3:30PM 129 DSP-Based Cross-Coupled Synchronous Control for Dual Linear Motors via Functional Link Radial Basis Function Network  
Chin-Sheng Chen, Po-Huan Chou and Faa-Jeng Lin
- 3:50PM 284 An Interactive Fuzzy Satisficing Method for Multiobjective Stochastic Defensive Location Problems  
Takeshi Uno and Kosuke Kato
- 4:10PM 423 A Comparison of Non-stationary, Interval Type-2 and Dual-Surface Interval Type-2 Fuzzy Control  
Naisan Benatar, Uwe Aickelin and Jonathan M. Garibaldi

<b>PS02</b>	<b>Poster</b>	<b>Poster Session II</b>	<b>Tuesday, June 28, 4:30PM-7:00PM</b>	<b>Grand Ballroom II</b>
P301	162	Robust Speed-Controlled Permanent Magnet Synchronous Motor Drive using Fuzzy Logic Controller Gunawan Dewantoro and Yong-Lin Kuo		
P302	183	Possibilistic Regression Analysis by Support Vector Machine Pei-Yi Hao		
P303	199	Cognitive Simulation-Based on Knowledge Evolution in Fuzzy Discrete Event Systems Paul-Antoine Bisgambiglia, Paul Antoine Bisgambiglia and Jean-Sebastien Gaultieri		
P304	202	A Fuzzy Tool for the Validation of Individual Risk Premia in High-Technology Venture Valuation Lars Krueger, Peter Heydebreck and Ralf Salomon		
P305	206	Soft-Core Implementation for Centre of Slice Area Average Defuzzifier Antonio Hernandez Zavala, Oscar Camacho Nieto and Cornelio Yanez Marquez		
P306	234	Fuzzy Integral-based Composite Facial Expression Generation for a Robotic Head Bum-Soo Yoo, Se-Hyoung Cho and Jong-Hwan Kim		
P307	243	Comparing soft clusters and partitions Derek Anderson, James Keller, Ozy Sjahputera, James Bezdek and Mihail Popescu		
P308	245	An Adaptive Hybrid Data Fusion Based Identification of Skeletal Muscle Force with ANFIS and Smoothing Spline Curve Fitting Parmod Kumar, Cheng-Hung Chen, Anish Sebastian, Madhavi Anugolu, Chandrasekhar Potluri, Amir Fassih, Yimesker Yihun, Alex Jensen, Yi Tang, Steve Chiu, Ken Bosworth, D. S. Naidu, Marco P. Schoen, Jim Creelman and Alex Urfer		
P309	249	A Functional-Link based Interval Type-2 Compensatory Fuzzy Neural Network for Nonlinear System modeling		

- Jyh-Yeong Chang, Yang-Yin Lin, Ming-Feng Han and Chin-Teng Lin
- P310 251 Infrared Image Segmentation using Enhanced Fuzzy C-Means clustering for Automatic Detection Systems  
Sitanshu Gupta and Asim Mukherjee
- P311 274 Image-Correlation Data Association with Global Uncertainty Techniques  
Stephen Stubberud and Kathleen Kramer
- P312 291 A Non-Singleton Interval Type-2 Fuzzy Logic System for Universal Image Noise Removal using Quantum-Behaved Particle Swarm Optimization  
Daoyuan Zhai, Minshen Hao and Jerry Mendel
- P313 306 Fuzzy Folksonomy-based Index Creation for e-Learning Content Retrieval on Cloud Computing Environments  
Wen-Chung Shih, Chao-Tung Yang and Shian-Shyong Tseng
- P314 308 Relationship between Intuitionistic Fuzzy Similarity Measures  
Leila Baccour, Adel M. Alimi and Robert I. John
- P315 316 Decomposition of Term-Document Matrix Representation for Clustering Analysis  
Jianxiong Yang and Junzo Watada
- P316 171 Visual-Based Guiding Method for Unmanned Helicopter Approaching to Landmark  
Kuo-Hsien Hsia, Shao-Fan Lien and Juhng-Perng Su
- P317 200 On the Type-1 and Type-2 Fuzziness Measures for Thresholding MRI Brain Images  
Rajesh R., Senthilkumaran N., Satheesh Kumar J., Shanmuga Priya B., Thilagavathy C. and Priya K.
- P318 587 A Fast Algorithm for Mining Frequent Closed Itemsets over Stream Sliding Window  
Show-Jane Yen, Cheng-Wei Wu, Yue-Shi Lee, Vincent S. Tseng and Chaur-Heh Hsieh
- P319 313 Neuro-Fuzzy System Design using Differential Evolution with Local Information  
Lin Chin-Teng, Han Ming-Feng, Lin Yang-Yin, Liao Shih-Hui and Chang Jyh-Yeong
- P320 325 stability analysis and Synthesis of Markovian Jump Nonlinear Systems with Incomplete Transition Descriptions via Fuzzy Control  
Min Kook Song, Jin Bae Park and Young Hoon Joo
- P321 426 Bio-inspired computing of vision - fuzzy and neurmorphic processing  
Woo Joon Han and Il Song Han

<b>SS10-1</b>	<b>Special Session</b>	<b>Medical and Wellness Engineering</b>	<b>Yutaka HATA</b>	<b>Tuesday, June 28, 5:00PM-7:00PM</b>	<b>Swan</b>
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- 5:00PM 89 A Testicular Tubule Evaluation Method by Ultrasonic Array Probe  
Yuya Takashima, Kei Kuramoto, Kobashi Syoji, Hata Yutaka and Ishikawa Tomomoto
- 5:20PM 98 Fuzzy RASP Determination by 1kHz Ultrasonic Probe for Total Hip Arthroplasty  
Naomi Yagi, Yoshitetsu Oshiro, Osamu Ishikawa, Yutaka Hata and Nao Shibamura
- 5:40PM 88 A Fuzzy Logic Approach to Predict Human Body Weight Based on AR Model  
Hideaki Tanii, Hiroshi Nakajima, Tsuchiya Naoki, Kei Kuramoto, Syoji Kobashi and Yutaka Hata
- 6:00PM 209 Consideration of Invasion, Intrusion, and Consciousness in Biomedical Sensing with Uncertainty  
Hiroshi Nakajima, Naoki Tsuchiya and Yutaka Hata
- 6:20PM 273 Load Forecasting using Fuzzy Wavelet Neural Networks  
Mahdi Amina and Vassilis Kodogiannis
- 6:40PM 593 Fuzzy Modelling Using a New Compact Fuzzy System: A Special Application to the Prediction of the Mechanical Properties of Alloy Steels  
Qian Zhang and Mahdi Mahfouf

<b>SS09</b>	<b>Special Session</b>	<b>Applications of Fuzzy Logic to Awareness Promotion</b>	<b>Kiyota Hashimoto</b>	<b>Tuesday, June 28, 5:00PM-7:00PM</b>	<b>Peacock</b>
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- 5:00PM 356 Agent Simulation for Contents Evaluation with User Models for Hierarchical Knowledge Relations  
Kiyota Hashimoto and Kazuhiro Takeuchi
- 5:20PM 607 Giving Awareness of Maturity by Capability Assessment  
Yi-Ling Kuo, Yu Nakamura, Masayuki Sakoda, Hiroshi Tsuji and Chang-Shing Lee
- 5:40PM 335 Medical Care System Evaluation Based on DEA Of Prefectures In Japan  
Kenji Fukuoka, Shingo Aoki and Yukie Majima
- 6:00PM 331 Structured DEA Model Considering Relation among Input and Output Elements  
Yamasaki Shingo and Aoki Shingo
- 6:20PM 490 Component-Based Search Engine for Blogs  
Sachio Hirokawa, Chengjiu Yin and Tetsuya Nakatoh
- 6:40PM 290 Influence of the Space Segmentation and its Adaptive Automation for Reinforcement Learning  
Akira Notsu, Yuki Komori, Katsuhiko Honda and Hidetomo Ichihashi

<b>SS08</b>	<b>Special Session</b>	<b>Innovative Fuzzy Approaches to Management Engineering</b>	<b>Junzo Watada</b>	<b>Tuesday, June 28, 5:00PM-7:00PM</b>	<b>Phoenix</b>
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- 5:00PM 43 Learning with Imbalanced Datasets using Fuzzy ARTMAP-based Neural Network Models  
Shing Chiang Tan, Junzo Watada, Zuwarie Ibrahim, Marzuki Khalid and Wen Jau Lee
- 5:20PM 18 Re-Scheduling the Unit Commitment Problem in Fuzzy Environment  
Bo Wang, You Li and Junzo Watada
- 5:40PM 19 Building a Fuzzy Multi-objective Portfolio Selection model with Distinct Risk Measurements  
You Li, Bo Wang and Junzo Watada
- 6:00PM 65 Statistic Test on Fuzzy Portfolio Selection Model  
Pei-Chun Lin, Junzo Watada and Berlin Wu
- 6:20PM 279 An Approach Based on Takagi-Sugeno Fuzzy Inference System Applied to the Operation Planning of Hydrothermal Systems  
Ricardo Rabelo, Ricardo Fernandes, Adriano Carneiro and Rosana Braga
- 6:40PM 495 Fuzzy Cognitive Maps in estimating the repercussions of oil/gas exploration on politico-economic issues in Cyprus  
Costas Neocleous, Maria Papaioannou and Christos Schizas

<b>SS37</b>	<b>Special Session</b>	<b>Fuzzy Logic Based Computer Vision and Its Applications to Guidance and Control</b>	<b>Kuo-Hsien Hsia</b>	<b>Tuesday, June 28, 5:00PM-7:00PM</b>	<b>Crane</b>
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- 5:00PM 390 The Picked and Placed Control of the Objects for a Pneumatic X-Y Servo Platform by Integrating Image Processing Techniques and a Fuzzy Sliding Mode Controller Design  
Hong-Ming Chen, Yi-Ping Shyu, Chun-Sheng Shen and Hong-Jia Yang
- 5:20PM 161 The Dynamic Measurement System Design for Stewart Platform by Using Digital Image Processing Method  
Yu Ker-Wei and Zhou Yu-Quan
- 5:40PM 318 Orientation control of hovercraft systems via an SMFLC and Image-Guided Techniques  
Chun-Chieh Wang
- 6:00PM 529 PSO-based Estimation for Gaussian Blur in Blind Image Deconvolution Problem  
Yang-Chih Lai, Chih-Li Huo, Yu-Hsiang Yu and Tsung-Ying Sun
- 6:20PM 494 Fuzzy integrals for the aggregation of confidence measures in speech recognition  
Julie Mauclair, Laurent Wendling and David Janiszek
- 6:40PM 400 Active Tracking Using Intelligent Fuzzy Controller and Kernel-Based Algorithm  
Moteaal Asadi Shirzi and M.R. Hairi-Yazdi

<b>SS17-1</b>	<b>Special Session</b>	<b>Practical and Applications Aspects of Type-2 Fuzzy Logic Systems</b>	<b>Woei Wan Tan</b>	<b>Tuesday, June 28, 5:00PM-7:00PM</b>	<b>Egret</b>
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- 5:00PM 591 An Interval Type 2 Fuzzy Approach to Multilevel Image Segmentation  
Debanga Raj Neog, Muhammad Amjad Raza and Frank Chung-Hoon Rhee
- 5:20PM 585 Navigation System of Mobile Robot in an Uncertain Environment Using Type-2 Fuzzy Modelling  
Sittichok Junratanasiri, Sansanee Auephanwiriyakul and Nipon Theera-Umpon
- 5:40PM 95 Multi-attribute Decision Making Models under Interval Type-2 Fuzzy Environment  
Weize Wang and Xinwang Liu
- 6:00PM 186 A Perceptual Computer Based Method for Supplier Selection Problem  
Han Shilian and Liu Xinwang

SS19	Special Session	Fuzzy Inference Systems-Theory and Applications	Hirosato Seki	Tuesday, June 28, 5:00PM-7:00PM	Swallow
5:00PM	573	Type-2 Fuzzy Functional Inference Method Hirosato Seki and Masaharu Mizumoto			
5:20PM	553	On Extension of Consequent Parts of T-S Inference Model Hirosato Seki and Masaharu Mizumoto			
5:40PM	118	Optimization of Gaussian Fuzzy Membership Functions and Evaluation of the Monotonicity Property of Fuzzy Inference Systems Tay Kai Meng and Lim Chee Peng			
6:00PM	417	Refinement CTIN for General Type-2 Fuzzy Logic Systems Thanh Long Ngo			
6:20PM	7	On a Strengthening Connective for Flexible Database Querying Patrick Bosc and Olivier Pivert			



# 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)

## Final Program

**Wednesday, June 29, 2011**

SS02-2	Special Session	Evolutionary Fuzzy Systems	Rafael Alcalá	Wednesday, June 29, 8:00AM-10:20AM	Swan
8:00AM	189	Studying the Behavior of a Multiobjective Genetic Algorithm to design Fuzzy Rule-Based Classification Systems for Imbalanced Data-Sets Pedro Villar, Alberto Fernandez and Francisco Herrera			
8:20AM	258	On the Cooperation of Interval-Valued Fuzzy Sets and Genetic Tuning to Improve the Performance of Fuzzy Decision Trees Jose Antonio Sanz, Alberto Fernandez, Humberto Bustince and Francisco Herrera			
8:40AM	388	A Two-Step Approach of Feature Construction for a Genetic Learning Algorithm David Garcia, Antonio Gonzalez and Raul Perez			
9:00AM	487	Using the Adaboost algorithm for extracting fuzzy rules from low quality data: some preliminary results Ana Palacios, Luciano Sanchez and Ines Couso			
9:20AM	324	Checking Orthogonal Transformations and Genetic Algorithms for Selection of Fuzzy Rules based on Interpretability-Accuracy Concepts M.Isabel Rey, Marta Galende, Gregorio I. Sainz and MariaJ. Fuente			
9:40AM	395	A Hierarchical Genetic Fuzzy Rule-Based Classifier for High-Dimensional Classification Problems Dimitris Stavrakoudis, Ioannis Gitas and John Theocharis			
10:00AM	432	A New Approach to Handle High Dimensional and Large Datasets in Multi-objective Evolutionary Fuzzy Systems Michela Antonelli, Pietro Ducange and Francesco Marcelloni			
SS12-2	Special Session	Recent Advances in Fuzzy-Model-Based Control Systems	H. K. Lam	Wednesday, June 29, 8:00AM-10:20AM	Peacock
8:00AM	40	Generalized Stabilizing Controllers for Fuzzy Systems via Circle Criterion -- LMI and SOS Ji-Chang Lo and Wei-Cheng Liao			
8:20AM	216	T-S Fuzzy Systems Approach to Approximation and Robust Controller Design for General Nonlinear Systems Qing Gao, Xiao-Jun Zeng, Gang Feng and Yong Wang			

- 8:40AM 62 A Polynomial Observer Design for a Wider Class of Polynomial Fuzzy Systems  
Toshiaki Seo, Hiroshi Ohtake, Kazuo Tanaka, Ying-Jen Chen and Hua O. Wang
- 9:00AM 45 A SVD Approach to  $H_{\infty}$  Decentralized Static Output Feedback Fuzzy Control Design for Nonlinear Interconnected Systems  
Chung-Shi Tseng and Yung-Yue Chen
- 9:20AM 111 Adaptive Fuzzy Sliding-Mode Control for a Class of Nonlinear Systems with Uncertainties  
Hugang Han
- 9:40AM 44 Mixed  $H_2/H_{\infty}$  Optimization with Discrete Smith Predictor for Fuzzy Decentralized Control of Nonlinear Interconnected Discrete Dynamic Systems with Large Delay  
Chih-Lyang Hwang
- 10:00AM 120 A Hybrid Fuzzy Sliding-Mode Control for a Class of Generalized, Under-Actuated and Uncertain Nonlinear Dynamic Systems  
Chih-Lyang Hwang and Hsiu-Ming Wu

SS31	Special Session	Human Symbiotic Systems	Daisuke Katagami	Wednesday, June 29, 8:00AM-10:20AM	Phoenix
8:00AM	365	Visualization and Analytical Support of Questionnaire Free-Texts Data based on HK Graph with Concepts of Words Daisuke Kobayashi, Tomohiro Yoshikawa and Takeshi Furuhashi			
8:20AM	353	Development of Body Mapping from Human Demonstrator to Inverted-Pendulum Mobile Robot for Imitation Takahashi Sataya, Takahashi Yasutake, Maeda Yoichiro and Nakamura Takayauki			
8:40AM	389	Social Interaction of Cooperative Communication and Group Generation in Multi-Agent Reinforcement Learning Systems Kun Zhang, Yoichiro Maeda and Yasutake Takahashi			
9:00AM	255	Estimation Of Subjective Stress Via Finger Plethysmogram Yusuke Kobashi, Genma Sano, Tsuyoshi Nakamura and Masayoshi Kanoh			
9:20AM	560	Human Preference Learning by Robot Partners Based on Multi-objective Behavior Coordination Naoyuki Kubota, Aiko Yaguchi and Utaki Ishikawa			
9:40AM	554	A Report The Difference Features Of A Multi-agent Using An Overlay Knowledge In The Fire Panic Problem Yukinobu Hoshino			
10:00AM	377	Group Pressure Generation of Multi-Agents on Cross-cultural Simulation Game Daisuke Katagami and Tam Huynh van			

<b>FC&amp;IS</b>	<b>Oral</b>	<b>Fuzzy Control and Intelligent Systems</b>	<b>Li-Wei Ko and Lun-De Liao</b>	<b>Wednesday, June 29, 8:00AM-10:20AM</b>	<b>Crane</b>
8:00AM	87	H2 Guaranteed Cost of Uncertain Continuous T-S Fuzzy Systems by Multiple Lyapunov Function Approach Wen-Ren Horng, Chun-Hsiung Fang, Ching-Hsiang Lee and Jyh-Horng Chou			
8:20AM	508	Higher Order Sliding Fuzzy Type-2 Interval Control for SISO Uncertain Nonlinear Systems Malik Manceur, Essounbouli Najib and Hamzaoui Abdelaziz			
8:40AM	248	Output Regulation Using Integral Fuzzy Predictive Control with Piecewise Lyapunov Functions Chien-Hung Liu and Kuang-Yow Lian			
9:00AM	580	Power Management of a Variable Speed Wind Turbine for Stand-Alone System using Fuzzy Logic Minh Huynh Quang, Frederic Nollet, Najib Essounbouli and Abdelaziz Hamzaoui			
9:20AM	550	Robust stabilization for continuous fuzzy systems with time varying delay Chedia Latrach, Mourad Kchaou, Ahmed Hajjaji and Ahmed Toumi			
9:40AM	406	Splitting K-means Generated Neural Fuzzy System with Support Vector Regression Cheng-Da Hsieh and Chia-Feng Juang			
10:00AM	523	Fuzzy Reinforcement Learning Control for Decentralized Partially Observable Markov Decision Processes Rajneesh Sharma and Matthijs T. J. Spaan			
<b>SS10-2</b>	<b>Special Session</b>	<b>Medical and Wellness Engineering</b>	<b>Yutaka HATA</b>	<b>Wednesday, June 29, 8:00AM-10:20AM</b>	<b>Egret</b>
8:00AM	338	A challenge to biometrics by sole pressure while walking Takahiro Takeda, Kei Kuramoto, Syoji Kobashi and Yutaka Hata			
8:20AM	433	Six Degree of Freedom Calculation Based on Principal Component Analysis for the Knee Joint in MDCT Image Yosuke Uozumi, Kouki Nagamune, Daisuke Araki, Tomoyuki Matsumoto and Takehiko Matsushita			
8:40AM	336	Nursing-care Text Classification using Additional Term Information from Web Manabu Nii, Takafumi Yamaguchi, Yusuke Mori, Yutaka Takahashi and Atsuko Uchinuno			
9:00AM	413	A Development of Navigation System for MOSAIC PLASTY using Electromagnetic Sensor Takayasu Toyoshima, Kouki Nagamune, Daisuke Araki, Tomoyuki Matsumoto and Seiji Kubo			
9:20AM	379	A Quantitative Measurement System of Endpoint during Lachman tTest with Force Sensor Shogo Kawaguchi, Kouki Nagamune, Daisuke Araki, Tomoyuki Matsumoto and Seiji Kubo			

- 9:40AM 569 Human Motion Tracking for Cognitive Rehabilitation in Informationally Structured Space Based on Sensor Networks  
Yuichiro Toda, Kodai Yuki, Eriko Hiwada and Naoyuki Kubota
- 10:00AM 472 A Pervasive Multi-sensor Data Fusion for Smart Home Healthcare Monitoring  
Hamid Medjahed, Dan Istrate, Jerome Boudy, Jean-Louis Baldinger and Bernadette Dorizzi

<b>SS13-1</b>	<b>Special Session</b>	<b>Fuzzy Multiple Criteria Decision Making</b>	<b>Gwo-Hshiung Tzeng</b>	<b>Wednesday, June 29, 8:00AM-10:20AM</b>	<b>Swallow</b>
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- 8:00AM 530 Value Driver Derivations for Embedded Memories by Fuzzy DEMATEL based Hybrid MCDM Methods  
Chi-Yo Huang and Gwo-Hshiung Tzeng
- 8:20AM 369 Fuzzy Multiple Attribute Decision Making Theory With The Balanced Scorecard Application In Mobile Industry  
Chiu-Hung Su, Ying-Hsun Hung and Gwo-Hshiung Tzeng
- 8:40AM 383 Fuzzy MCDM Application for Strategy Evaluation  
Mei-Chen Lo and Gwo-Hshiung Tzeng
- 9:00AM 342 Exploring the SPM System Structure Model by Using Fuzzy DEMATEL for NPD  
Chang Yu-Yun, Kuan Meng-Jong, Chuang Yen-Ching and Tzeng Gwo-Hshiung
- 9:20AM 398 Interdependent Multiple Objective Programming- A Monte Carlo Method  
Jih-Jeng Huang and Chin-Yi Chen
- 9:40AM 93 Handling Fuzzy Decision Making Problem based on Linguistic Information and Intersection Concept  
Chen-Tung Chen, Ping-Feng Pai and Wei-Zhan Hung
- 10:00AM 14 Evaluate and Identify Optimal Weapon Systems Using Fuzzy Multiple Criteria Decision Making  
Ying Bai and Dali Wang

<b>FA-2</b>	<b>Oral</b>	<b>Fuzzy Applications</b>	<b>Qiang Shen</b>	<b>Wednesday, June 29, 8:00AM-10:20AM</b>	<b>Grand Ballroom II</b>
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- 8:00AM 134 Fuzzy-rough Classifier Ensemble Selection  
Ren Diao and Qiang Shen
- 8:20AM 135 Kernel-Based Fuzzy-Rough Nearest Neighbour Classification  
Yanpeng Qu, Changjing Shang, Qiang Shen, Neil MacParthalain and Wei Wu
- 8:40AM 240 FAPOP: Feature Analysis Enhanced Pseudo Outer-Product Fuzzy Rule Identification System  
Sau Wai Tung, Chai Quek and Cuntai Guan

- 9:00AM 256 Tracking Control of Surface Vessels via Adaptive Type-2 Fuzzy Logic Control  
Xue Tao Chen and Woei Wan Tan
- 9:20AM 263 Relaxed Fuzzy Lyapunov Approach for Dynamic Local Model Networks  
Christian Mayr, Christoph Hametner, Martin Kozek and Stefan Jakubek
- 9:40AM 484 Vehicle Warning System for Land Departure and Collision Avoidance: Using Adaptive Fuzzy Decision Making  
Chih-Li Huo, Yu-Hsiang Yu, Jih-Cheng Syu and Tsung-Ying Sun
- 10:00AM 444 Centroid Density of Interval Type-2 Fuzzy Sets: Comparing Stochastic and Deterministic Defuzzification  
Ondrej Linda and Milos Manic

<b>PS03</b>	<b>Poster</b>	<b>Poster Session III</b>	<b>Wednesday, June 29, 2:30PM-4:30PM</b>	<b>Grand Ballroom II</b>
P501	370	Statistical Scheme via AIC for Evaluating the Optimal Cut Off Level in Fuzzy Clustering Shuya Kanagawa, Kimiaki Shinkai, Hsunhsun Chung and Kenichi Nagashima		
P502	371	Genetic Algorithm Based Fully Automated and Adaptive Fuzzy Logic Controller Pintu Shill, Kishore Pal, Faijul Amin and Kazuyuki Murase		
P503	373	A Comparison of Distance-based Semi-Supervised Fuzzy c-Means Clustering Algorithms Daphne Teck Ching Lai and Jonathan M. Garibaldi		
P504	382	Applying MDL in PSO for Learning Bayesian Networks Shu-Ching Kuo, Hung-Jen Wang, Hsiao-Yi Wei, Chih-Chuan Chen and Sheng-Tun Li		
P505	385	Relational Structure Analysis of Fuzzy Node Fuzzy Graph and its Application Hiroaki Uesu, Kenichi Nagashima, Hsunhsun Chung and Ei Tsuda		
P506	419	On another approach to the definition of an L-fuzzy valued integral Vecislavs Ruza and Svetlana Asmuss		
P507	422	Evolving Fuzzy Image Segmentation Ahmed Othman and Hamid Tizhoosh		
P508	430	On spline methods of approximation under L-fuzzy information Svetlana Asmuss and Alexander Sostak		
P509	440	Local Non-Quadratic H-infinity Control For Continuous-Time Takagi-Sugeno Models Miguel Bernal, Adolfo Soto-Cota, Joaquin Cortez, Jose Luis Pitarch and Abdelhafidh Jaadari		

- P510 451 Fuzzy Active Contour Models  
Cesar Pereira, Carlos Bastos, Ren Tsang and George Cavalcanti
- P511 470 Discretization of fuzzy transitive relations  
D. Boixader and J. Recasens
- P512 476 Tridimensional Fuzzy Pain Assessment  
Ernesto Araujo and Suzana Miyahira
- P513 478 Integrate Variable Precision Rough Sets and Modified PBMF Index Function for Partitioning and Classifying Complex Datasets  
Kuang Yu Huang and Yu-Hsin Cheng
- P514 486 Anti-Swing Control of A New Container Crane With Fuzzy Uncertainties Compensation  
Weimin Xu, Wei Gu, Aidi Shen, Jianxin Chu and Wangqiang Niu
- P515 492 A Robust Method for Image Segmentation of Noisy Digital Images  
Prabhjot Kaur, I. M. S. Lamba and Anjana Gosain
- P516 534 The Fuzzy DEMATEL based Job Accommodation Strategy Definitions for Operators with Hearing Impairments  
Chi-Yo Huang and Gwo-Hshiung Tzeng
- P517 527 A Fuzzy MCDM method to select the best company based on Financial Report Analysis  
Jung-Yuan Kung, Tzung-Nan Chuang and Minh Ky Chau
- P518 572 Improve Observation-Based Discrete Hidden Markov Model by Fuzzy Vector Quantization -- An example on electroencephalogram (EEG) signal recognition  
Shing-Tai Pan, Sheng-Fu Liang, Tzung-Pei Hong and Jian-Hong Zeng
- P519 92 Design of Interval Type-2 Fuzzy Logic Systems Using Prior Knowledge via Optimization Algorithms  
Tiechao Wang and Jianqiang Yi
- P520 34 Fuzzy Reinforcement Learning for System of Systems (SOS)  
Hamid Berenji and Mo Jamshidi

<b>SS20</b>	<b>Special Session</b>	<b>Universal Contents Creation/Distribution and Intelligent System</b>	<b>Katsuhiko Honda</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Swan</b>
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- 2:50PM 48 Partially Exclusive Condition for Sequential Fuzzy Co-cluster Extraction  
Katsuhiko Honda, Akira Notsu and Hidetomo Ichihashi

- 3:10PM 323 DEA based Hierarchical Structure Evaluation and Vissualization Method  
Kazushige Inoue, Takeo Ichinotsubo and Shingo Aoki
- 3:30PM 115 Group Decision Focusing on Outliers  
Tomoe Entani
- 3:50PM 15 PCA-guided k-Means Clustering With Incomplete Data  
Katsuhiro Honda, Ryoichi Nonoguchi, Akira Notsu and Hidetomo Ichihashi
- 4:10PM 53 Proposed Particle-Filtering Method for Reinforcement Learning  
Akira Notsu, Katsuhiro Honda and Hidetomo Ichihashi

<b>SS03</b>	<b>Special Session</b>	<b>Uncertainty and the Semantic Web</b>	<b>Fernando Bobillo</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Peacock</b>
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- 2:50PM 298 Formalizing Object Membership in Fuzzy Ontology with Property Importance and Property Priority  
Yi Cai and Ho-fung Leung
- 3:10PM 142 Aggregation Operators and Fuzzy OWL 2  
Fernando Bobillo and Umberto Straccia
- 3:30PM 310 Are Fuzzy Description Logics with General Concept Inclusion Axioms Decidable?  
Franz Baader and Rafael Penaloza
- 3:50PM 454 Fuzzy Concept Lattice Construction: A Basis for Building Fuzzy Ontologies  
Valerie Cross and Meenaskhi Kandasamy
- 4:10PM 420 Fuzziness, OWA and Linguistic Quantifiers for Web Selection Processes  
Ronald R. Yager, Marek Z. Reformat and Giray Gumrah

<b>SS04</b>	<b>Special Session</b>	<b>Soft Computing for Operations Research and Optimization</b>	<b>Takashi Hasuike</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Phoenix</b>
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- 2:50PM 502 Visual Stability Improvement of SOM's Feature Map by Initial Value Assignment  
Shinji Momoi and Tsutomu Miyoshi
- 3:10PM 61 Study of morphogenesis of a large-span roof that satisfies its form design requirements  
Yuya Takeda and Kazutoshi Tsutsumi
- 3:30PM 86 Multiobjective Two-Level 0-1 Programming through Distributed Genetic Algorithms  
Keiichi Niwa, Tomohiro Hayashida and Masatoshi Sakawa

- 3:50PM 12 Optimal Static Output Feedback Control of Fuzzy-Model-Based Control Systems  
Wen-Hsien Ho, Chen Shinn-Horng, Chou Jyh-Horng and Shu Chun-Chin
- 4:10PM 197 An Interactive Satisficing Method for Multiobjective Random Fuzzy Programming Problems through the Possibility-Based Probability Model  
Hideki Katagiri, Masatoshi Sakawa and Takeshi Matsui

<b>SS01</b>	<b>Special Session</b>	<b>Fuzzy Ontologies and FML Applications</b>	<b>Giovanni Acampora</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Crane</b>
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- 2:50PM 307 Improving Ontology Alignment through Memetic Algorithms  
Giovanni Acampora, Pasquale Avella, Vincenzo Loia, Salerno Saverio and Autilia Vitiello
- 3:10PM 468 Genetic Fuzzy Markup Language for Diet Application  
Chang-Shing Lee, Mei-Hui Wang, Zhi-Wei Chen, Chin-Yuan Hsu, Su-E Kuo, Hui-Ching Kuo, Hui-Hua Cheng and Akio Naito
- 3:30PM 124 A Hierarchical Approach to Assess Keyword Dependencies in Fuzzy Keyword Ontologies  
Christer Carlsson, Robert Fuller and Mario Fedrizzi
- 3:50PM 148 Improving Disease Prediction Using ICD-9 Ontological Features  
Mihail Popescu and Mohammed Khalilia

<b>SS42-2</b>	<b>Special Session</b>	<b>Fuzzy Cognitive Maps-Theory and Applications</b>	<b>Elpiniki I. Papageorgiou and Sebastian Lozano</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Egret</b>
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- 2:50PM 514 Software Maintenance Scenarios Simulation with Fuzzy Cognitive Maps  
Cristina Lopez, Jose L. Salmeron and Sebastian Lozano
- 3:10PM 262 Train Fuzzy Cognitive Maps by Gradient Residual Algorithm  
Huiliang Zhang, Zhiqi Shen and Chunyan Miao
- 3:30PM 556 Causal Modeling Approximations In The Medical Domain  
Lawrence Mazlack
- 3:50PM 163 Interactive fuzzy programming through possibility measures and probability maximization for two-level linear programming problems involving fuzzy random variable coefficients  
Masatoshi Sakawa, Hideki Katagiri and Takeshi Matsui



<b>SS21-2</b>	<b>Special Session</b>	<b>Fuzzy Control in Industrial and Application</b>	<b>Shun-Hung Tsai, Chin-Sheng Chen and Ming-Ying Hsiao</b>	<b>Wednesday, June 29, 2:50PM-4:30PM</b>	<b>Swallow</b>
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- 2:50PM 265 Decentralized Fuzzy Fault Tolerant Control for Multiple Satellites Attitude Synchronization  
Junquan Li and K. D. Kumar
- 3:10PM 128 T-S Fuzzy Tracking and Synchronous Control in a Gantry Stage  
Chin-Sheng Chen, Chao-Feng Lee, Po-Huan Chou, Faa-Jeng Lin and Shun-Hung Tsai
- 3:30PM 181 Observer-Based Adaptive FNN Control of Robot Manipulators: PSO-SA Self Adjust Membership Approach  
Kai-Shiuan Shih, Tzoo-Hseng S. Li and Shun-Hung Tsai
- 3:50PM 137 Design of Digital Battery Charger System Based on PV-Module  
Ta-Tau Chen, Ming-Ying Hsiao, Shun-Hung Tsai and Che-Nan Lin
- 4:10PM 217 Fuzzy Approaches for Multiobjective Stochastic Linear Programming Problems Considering Both Probability Maximization and Fractile Optimization  
Hitoshi Yano

<b>PS04</b>	<b>Poster</b>	<b>Poster Session IV</b>		<b>Wednesday, June 29, 4:30PM-7:00PM</b>	<b>Grand Ballroom II</b>
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- P701 497 Performance Enhancement of Hierarchical Document Signature: A Comprehensive Study  
Sukanya Manna and Tom Gedeon
- P702 509 Sliding Adaptive Fuzzy Control for a Class of Time-Delayed Chaotic Systems  
Negin Farzbod, Hassan Zarabadipour, Mahdi Aliyari Shoorehdeli and Faezeh Farivar
- P703 515 Estimating Missing Value in Microarray Gene Expression Data  
Amit Paul and Jaya Sil
- P704 537 Interval Fuzzy Modeling Applied to Model Based Fault Detection of an Active Suspension System  
Tayebe Sadat Ghiasi, Hassan Zarabadipour and Mahdi Aliyari Shoorehdeli
- P705 541 Uncertainty Management in Type-2 Fuzzy Face-Space for Emotion Recognition  
Rajshree Mandal, Anisha Halder, Pavel Bhowmik, Aruna Chakraborty, Amit Konar and Atulya K. Nagar
- P706 549 Generation of Takagi-Sugeno Fuzzy Systems with Minimum Rules in Modeling and Identification  
Feng Wan and Chenglin Hu
- P707 551 Maximum Power Point Tracker for a PV Cell using a Fuzzy Agent adapted by the Fractional Open Circuit Voltage Technique  
Moustafa Adly, Hisham El-Sherif and Mohamed Ibrahim

- P708 597 Improvement of Digital Image Motion Compensation by Fuzzy Inference  
Sheng-Che Hsu
- P709 598 A Semisupervised Feature Extraction Method Based on Fuzzy-type Linear Discriminant Analysis  
Hui-Shan Chu, Cheng-Hsuan Li, Bor-Chen Kuo and Chin-Teng Lin
- P710 599 The Emotion Recognition System with Heart Rate Variability and Facial Image Features  
Pei-Yang Hsieh and Chiun-Li Chin
- P711 610 Fuzzy Control of a Bi-directional Inverter with Nonlinear Inductance for DC Microgrids  
Gwo-Ruey Yu
- P712 611 The Development of the Automatic Lane Following Navigation System for the Intelligent Robotic Wheelchair  
Wen-Chang Cheng and Chia-Ching Chiang
- P713 614 The Prediction of Trust Rating Based on the Quality of Services Using Fuzzy Linear Regression  
Hadi Mashinchi, Lei Li, Mehmet Orgun and Yan Wang
- P714 616 Observer-based Hybrid Fuzzy CMAC Controller for a Class of Uncertain Chaotic Systems  
Chun-Sheng Chen
- P715 271 Automated Boundary Extraction and Visualization System for Coronary Plaque in IVUS Image by Using Fuzzy Inference-based Method  
Takanori Koga, Eiji Uchino and Noriaki Suetake
- P716 154 Multi-source Knowledge Based Unnormalized Interval Type-2 Fuzzy Logic Systems Design  
Tiechao Wang, Jianqiang Yi and Chengdong Li
- P717 264 On the Properties of SIRMs Connected Type-1 and Type-2 Fuzzy Inference Systems  
Chengdong Li, Guiqing Zhang, Jianqiang Yi and Tiechao Wang
- P718 333 Digital controller design for fuzzy systems with packet loss: intelligent digital redesign approach  
Geun Bum Koo, Jin Bae Park, Young Hoon Joo and Hyoung Seok Jeon
- P719 517 Mixed-Time T-S Fuzzy Optimal Estimator for Target Tracking  
Sun Young Noh, Jin Bae Park and Young Hoon Joo
- P720 540 Generalized Projective Synchronization of Time-Delayed Chaotic Systems via Sliding Adaptive Fuzzy Control  
Negin Farzbod, Hassan Zarabadipour, Mahdi Aliyari Shoorehdeli and Faezeh Farivar

<b>SS40</b>	<b>Special Session</b>	<b>Fuzzy Approach for Information Security Management</b>	<b>Che-Hung Liu</b>	<b>Wednesday, June 29, 5:00PM-7:00PM</b>	<b>Peacock</b>
5:00PM	416	Knowledge Management, Education and Firm's Performance Yen-Tzu Chen, Yun-Chia Yan, Hsiao-Wen Huang and Hua-Wei Huang			
5:20PM	525	Expert decision making method based on uncertain linguistic variables Tzung-Nan Chuang, Jung-Yuan Kung, Yin-Fang Lin and Hsiang-Chun Ku			
5:40PM	575	Applying FML and Fuzzy Ontologies to Malware Behavioural Analysis Hsien-De Huang, Giovanni Acampora, Vincenzo Loia, Chang-Shing Lee and Hung-Yu Kao			
6:00PM	401	Applying Fuzzy AHP to Study the KSFs of Information Security Management Jen-Sheng Wang, Che-Hung Liu, Joseph Z. Shyu Shyu and Hsiao-Wen Huang			
6:20PM	6	An Extension of a Fuzzy Ontology for Flexible Querying Nouredine Tamani, Ludovic Lietard and Daniel Rocacher			
6:40PM	329	A Computational Linguistic Approach for the Identification of Translator Stylometry using Arabic-English Text Heba El-Fiqi, Eleni Petraki and Hussein A. Abbass			
<b>SS38</b>	<b>Special Session</b>	<b>Fuzzy Knowledge Discovery and Its Applications</b>	<b>Rung-Ching Chen</b>	<b>Wednesday, June 29, 5:00PM-7:00PM</b>	<b>Phoenix</b>
5:00PM	364	Genetic-Fuzzy Association Rules for Network Intrusion Detection Systems Ming-Yang Su, Chun-Yuen Lin, Sheng-Wei Chien and Han-Chung Hsu			
5:20PM	459	Personalized Recommendation for Web-based Learning Based on Ant Colony Optimization with Segmented-goal and Meta-Control Strategies Feng-Hsu Wang			
5:40PM	461	A novel fuzzy recommendation system integrated the experts' opinion Li Chen Cheng and Hua An Wang			
6:00PM	464	Fuzzy Rule-Based Stock Trading System I-Cheng Yeh and Che-hui Lien			
6:20PM	582	Towards Application of FML in Suspicion of Non-Common Diseases Giovanni Acampora, Tatiana Kiseliova, Karaman Pagava and Autilia Vitiello			

6:40PM 296 Linguistic summarization of long-term trends for understanding change in human behavior  
 Maria Ros, Derek Anderson, James Keller, Manuel Pegalajar, Miguel Delgado, Amparo Vila and Mihail Popescu

SS39	Special Session	Fuzzy Based Computation on Biomedical Systems	Shing-Tai Pan	Wednesday, June 29, 5:00PM-7:00PM	Crane
5:00PM	281	Fuzzy Knowledge Approach to Automatic Disease Diagnosis Giuseppe Fenza, Vincenzo Loia, Carmen De Maio, Mariacristina Gallo, Roberto Linciano and Aldo Morrone			
5:20PM	349	Predicting Laboratory Testing in Intensive Care using Fuzzy and Neural Modeling Federico Cismondi, Andre Fialho, Susana Vieira, Joao Sousa and Shane Reti			
5:40PM	109	A fuzzy inference system for sleep staging Liang Sheng-Fu, Chen Ying-Huang, Kuo Chih-En, Chen Jyun-Yu and Hsu Sheng-Che			
6:00PM	485	Fusion of Fuzzy Logic and PD Control for a Five-Fingered Smart Prosthetic Hand Cheng-Hung Chen and D. Subbaram Naidu			
6:20PM	414	Hierarchical-interpolative Fuzzy System Construction by Genetic and Bacterial Programming Algorithms Krisztian Balazs and Laszlo T. Koczy			
6:40PM	140	Study on Various Defuzzification Methods for Fuzzy Clustering Algorithms to Improve ROIs Detection in Lung CTs Alberto Rey, Bernardino Arcay and Alfonso Castro			

SS17-2 SS15	Special Session	Practical and Applications Aspects of Type-2 Fuzzy Logic Systems & Type-2 Fuzzy Logic Theory	Hani Hagra and Christian Wagner	Wednesday, June 29, 5:00PM-7:00PM	Egret
5:00PM	24	Comparison and Practical Implementation of Type-Reduction Algorithms for Type-2 Fuzzy Sets and Systems Dongrui Wu and Maowen Nie			
5:20PM	602	Interpreting Fuzzy Set Operations and Multi Level Agreement in a Computing with Words Context Christian Wagner and Hani Hagra			
5:40PM	211	An Adaptive Type-2 Fuzzy Logic Controller for Dynamic Positioning Xue Tao Chen and Woei Wan Tan			
6:00PM	269	Interval Type-2 Recurrent Fuzzy Neural System Desing via Stable Simultaneous Perturbation Stochastic Approximation Algorithm Feng-Yu Chang and Ching-Hung Lee			
6:20PM	145	Efficient centroid computation of general type-2 fuzzy sets with linear secondary membership function Liu Xinwang			

6:40PM 283 Type-2 Fuzzy Airplane Altitude Control: A Comparative Study  
Sheir Afgen Zaheer and Jong-Hwan Kim

SS30 SS43	Special Session	Fuzzy Inference Systems-Theory and Applications &Fuzzy Systems of Unknown Nonlinear Complex Systems	Chi-Hsu Wan and Shih-Yu Li	Wednesday, June 29, 5:00PM-7:00PM	Swallow
5:00PM	436	Solving Zadeh's Magnus Challenge Problem on Linguistic Probabilities via Linguistic Weighted Averages Mohammad Reza Rajati, Jerry Mendel and Dongrui Wu			
5:20PM	68	Linguistic Weighted Power Means: Comparison with the Linguistic Weighted Average John T. Rickard, Janet Aisbett, Ronald R. Yager and Greg Gibbon			
5:40PM	241	Finding the Capacity of Fuzzy Neural Networks (FNNs) via Its Equivalent Fully Connected Neural Networks (FFNNs) Jing Wang, Chi-Hsu Wang and C. L. Philip Chen			
6:00PM	589	On the Classification of Cancer Cell Gene via Expressive Value Distance (EVD) Algorithm and Its Comparison to the Optimally Trained ANN Method Tong Zhang, Sik Chung Tam, Chi-Hsu Wang and C.L. Philip Chen			
6:20PM	592	Adaptive Neural-Fuzzy Inference System for Classification of Rail Quality Data with Bootstrapping-Based Over-Sampling Yong Yao Yang, Mahdi Mahfouf, George Panoutsos, Steve Thornton and Qian Zhang			
6:40PM	219	Passive Fuzzy Control for Uncertain Nonlinear Stochastic Inverted Pendulum Robot System Wen-Jer Chang, Sin-Sian Jheng and Cheung-Chieh Ku			

# 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011)

## Final Program

**Thursday, June 30, 2011**

SS23	Special Session	Industrial Applications of Evolving Fuzzy Systems	Kit Yan Chan	Thursday, June 30, 8:00AM-10:20AM	Swan
8:00AM	105	Economic Load Dispatch using Intelligent Optimization with Fuzzy Contr Johnny C.Y. Lai, Frank H. Leung, S. H. Ling and Edwin C. Shi			
8:20AM	28	Hypoglycemia Detection using Fuzzy Inference System with Genetic Algorithm Sai Ho Ling, Hung Nguyen and F.H.F Leung			
8:40AM	280	An Approach for Stability Analysis of Polynomial Fuzzy Model-Based Control Systems Mohammad Narimani, Hak-Keung Lam, Kaspar Althoefer, Reza Shams Dilmaghani, Charles Wolfe and Christian Deters			
9:00AM	588	A Distributed Smart Routing Scheme for Terrestrial Sensor Networks with Hybrid Neural Rough Sets Frank Jiang and Steve Ling			
9:20AM	435	P2P Traffic Identification and Optimization Using Fuzzy C-means Clustering Duo Liu and Chung-Horng Lung			
9:40AM	30	Determination Of Process Conditions Of Epoxy Dispensing Processes Using A Genetic Algorithm Based Neural Fuzzy Networks K. Y. Chan, T.S. Dillon, S. H. Ling and C.K. Kwong			
10:00AM	31	Manufacturing Modeling Using An Evolutionary Fuzzy Regression K.Y. Chan, T.S. Dillon, S.H. Ling and C.K. Kwong			
MFI&RWA	Oral	Medical, Financial, Industrial and Other Real World Applications	James Keller	Thursday, June 30, 8:00AM-10:20AM	Peacock
8:00AM	153	A Heuristic Search and its Roughness Chun-Hung Tzeng and Fu-Shing Sun			
8:20AM	164	Linguistic description of adult skeletal age-at-death estimations from fuzzy integral acquired fuzzy sets Derek Anderson, Melissa Anderson, James Keller and Daniel Wescott			
8:40AM	491	Moving Pattern-based Approach to Modeling of a Class of Complex Production Processes Zhengguang Xu and Changping Sun			

- 9:00AM 596 Multiple Characterisation Modelling of Friction Stir Welding Using a Genetic Multi-objective Data-driven Fuzzy Modelling Approach  
Qian Zhang, Mahdi Mahfouf, George Panoutsos, Kathryn Beamish and Ian Norris
- 9:20AM 429 Fuzzy Modeling to Predict Administration of Vasopressors in Intensive Care Unit Patients  
Andre Fialho, Federico Cismondi, Susana Vieira, Joao Sousa, Shane Reti, Leo Celi, Michael Howell and Stan Finkelstein
- 9:40AM 354 Probing Performance Evaluation for NPD Process by Using MCDM Approach  
Chia-Chun Hsiang, Meng-Jong Kuan and Gwo-Hshiung Tzeng
- 10:00AM 221 Application of Adaptive Self-Organizing CMAC\_GBF to Aircraft Landing System  
Jih-Gau Juang

<b>FSM&amp;IS</b>	<b>Oral</b>	<b>Fuzzy Systems Modeling and Intelligent Systems</b>	<b>Honghai Liu and Shih-Yu Li</b>	<b>Thursday, June 30, 8:00AM-10:20AM</b>	<b>Phoenix</b>
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- 8:00AM 522 Optimal Necessary Conditions for General SISO Mamdani Fuzzy Systems as Function Approximators within a Given Accuracy  
Fuchun Sun, Jin Yang, Minnan Luo and Huaping Liu
- 8:20AM 493 A fuzzy stochastic programming approach to solve the capacitated lot size problem under uncertainty  
Navid Sahebjamnia and S.Ali Torabi
- 8:40AM 278 Look-ahead intelligent energy management of a parallel hybrid electric vehicle  
Behnam Ganji, Abbas Z. Kouzani and Hamid Khayyam
- 9:00AM 38 Dynamic Window with Fuzzy Controller in Wireless Sensor Networks for Elliptic Curve Cryptography  
Xu Huang, Dharmendra Sharma and Pritam Gajkumar Shah
- 9:20AM 260 Regulation for Wind Generation System Using Ant System Based Takagi Sugeno Fuzzy PID  
Ahmad Besheer and Abdo Tamer
- 9:40AM 396 Actuator Delayed Active Vehicle Suspension Control: A T-S Fuzzy Approach  
Hongyi Li, Honghai Liu and Huijun Gao
- 10:00AM 66 Hinf Disturbance Attenuation of Fuzzy Large-Scale Systems  
Mehdi Hosseinzadeh, Nasser Sadati and Iman Zamani

<b>FST&amp;GC</b>	<b>Oral</b>	<b>Fuzzy Set Theory and Granular Computing</b>	<b>Gwo-Hshiung Tzeng and Lun-De Liao</b>	<b>Thursday, June 30, 8:00AM-10:20AM</b>	<b>Crane</b>
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- 8:00AM 518 Dualities between Indistinguishabilities and Related Concepts  
Gabriel Mattioli and Jordi Recasens

- 8:20AM 559 Graded equipollence and fuzzy c-measures of finite fuzzy sets  
Michal Holcapek
- 8:40AM 437 On monotonicity of type  $\langle 1,1 \rangle$  fuzzy quantifiers determined by fuzzy measures  
Antonin Dvorak and Michal Holcapek
- 9:00AM 104 Generalized Fuzzy Imaginary Ideals of Rings  
Zuhua Liao, Shu Cao, Qinghe Tian, Miaohan Hu and Yang Zhang
- 9:20AM 59 Cellular Fuzzy Networks  
Koosha Sadeghi Oskooyee, Mohammad Mansour Riahi Kashani and Mehrdad Jangjou
- 9:40AM 568 Expatriate Manager Selection for an Overseas Manufacturing Site by Using FMCDM Methods  
Chi-Yo Huang, Chih-Wei Wan and Gwo-Hshiung Tzeng
- 10:00AM 8 On the Geometry of Join and Meet Calculations for General Type-2 Fuzzy Sets  
Jerry Mendel

<b>SS36-1</b>	<b>Special Session</b>	<b>Fuzzy Systems on Renewable Energy</b>	<b>Faa-Jeng Lin</b>	<b>Thursday, June 30, 8:00AM-10:20AM</b>	<b>Egret</b>
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- 8:00AM 97 A Fuzzy-Based Output Power Smoothing of WECS using Short-Term Ahead Prediction of Wind Speed  
Yuya Izumi, Alok Pratap, Yoshihisa Kinjyo, Akie Uehara and Endusa Billy Muhando
- 8:20AM 332 Frequency and Voltage Control by Decentralized Controllable Loads with Fuzzy Control  
Yoshihisa Kinjyo, Tomonobu Senjyu, Atsushi Yona, Nomitsu Urasaki and Toshihisa Funabashi
- 8:40AM 27 Short-Term Load Forecasting Via Fuzzy Neural Network With Varied Learning Rates  
Rong-Jong Wai, Yi-Chang Chen and Yung-Ruei Chang
- 9:00AM 133 A Fuzzy Control Maximum Power Point Tracking Photovoltaic System  
Irwan Purnama, Lo Yu-Kang and Chiu Huang-Jen
- 9:20AM 391 Fuzzy Control of MW-class PV Generation to Reduce Frequency and Tie-line Power Fluctuations in Three Control Area Power System  
Manoj Datta, Tomonobu Senjyu, Atsushi Yona and Toshihisa Funabashi
- 9:40AM 327 A Fuzzy-Rule Based Power Restoration Approach for a Distribution System with Renewable Energies  
Hong-Tzer Yang, Jian-Tang Liao and Xiang-He Su



10:00AM 539 Neuro-Fuzzy Predictive Model for PV Energy Production based on Weather Forecast  
 Francesco Grimaccia, Marco Mussetta and Riccardo E. Zich

HA	Oral	Hybrids and Other Applications	Bor-Sen Chen	Thursday, June 30, 8:00AM-10:20AM	Magpie
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- 8:00AM 237 Improving Estimation Accuracy of the COCOMO II Using an Adaptive Fuzzy Logic Model  
 Iman Attarzadeh and Siew Hock Ow
- 8:20AM 259 Fuzzy-Rough Set based Semi-Supervised Learning  
 Neil Mac Parthalain and Richard Jensen
- 8:40AM 418 An Application of Genetic Fuzzy Systems for Wireless Sensor Networks  
 Liliam Leal, Marcus Lemos, Raimir Holanda, Ricardo Rabelo and Fabbio Borges
- 9:00AM 304 On Predicting Learning Styles in Conversational Intelligent Tutoring Systems using Fuzzy Classification Trees.  
 Keeley Crockett, Annabel Latham, Zuhair Bandar, James O'Shea and David Mclean
- 9:20AM 501 Signal Transduction Ability Measurement of Signaling Pathways in Intracellular Communication via Fuzzy Method  
 Chia-Chou Wu and Bor-Sen Chen
- 9:40AM 348 Long-term business cycle forecasting using intuitionistic fuzzy least-squares support vector regression  
 Kuo-Ping Lin, Kuo-Chen Hung and Ming-Chang Wu

FS&FDM	Oral	Fuzzy Clustering and Fuzzy Data Mining	Tzung-Pei Hong	Thursday, June 30, 8:00AM-10:20AM	Swallow
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- 8:00AM 165 Fuzzy Clustering Approach for Star-Structured Multi-Type Relational Data  
 Jian-Ping Mei and Lihui Chen
- 8:20AM 427 Predicting Septic Shock Outcomes in a Database with Missing Data using Fuzzy Modeling  
 Ruben Pereira, Andre Fialho, Federico Cismondi, Susana Vieira, Joao Sousa, Rui Almeida, Uzay Kaymak, Shane Reti, Michael Howell and Stan Finkelstein
- 8:40AM 405 A normalized soft window-based similarity measure to extend the Rand index  
 Romain Quere and Carl Frelicot
- 9:00AM 149 Fuzzy Clustering With Learnable Cluster Dependent Kernels  
 Ouiem Behir and Hichem Frigui
- 9:20AM 236 The Interval Autoregressive Time Series Model  
 Xun Wang and Shoumei Li

- 9:40AM 229 Feature Evaluation Based Fuzzy C-Mean Classification  
Mostafa A. Salama, Aboul Ella Hassanien and Aly A. Fahmy
- 10:00AM 386 A Clustering Method for Geometric Data based on Approximation using Conformal Geometric Algebra  
Minh Tuan Pham, Kanta Tachibana, Tomohiro Yoshikawa and Takeshi Furuhashi

FO&FEC	Oral	Fuzzy Optimization and Fuzzy Emotional Computing	Chuan-Yu Chang	Thursday, June 30, 1:30PM-2:30PM	Peacock
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- 1:30PM 33 Fuzzy Bipolar Conditions of Type "or else"  
Ludovic Lietard, Nouredine Tamani and Daniel Rocacher
- 1:50PM 130 Fuzzy Optimization Model Based Tolerance Approach to Timetable Rescheduling for High Speed Railway in China  
Yong Qin, Li Wang, Huan Lian, Xuelei Meng, Xuewen Li, Fugui Shi and Limin Jia
- 2:10PM 402 Online Neuro-Fuzzy CANFIS Hidden-Node Teaching  
Eiji Mizutani and Jing-Yun Fan

RS&RDA	Oral	Rough Sets and Rough Data Analysis	Yo-Ping Huang and Shih-Yu Li	Thursday, June 30, 1:30PM-2:30PM	Phoenix
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- 1:30PM 358 Fuzzy Fusion Fairness Relations for the Evaluation of User Preference  
Mario Koeppen, Jun Okamoto and Aoi Honda
- 1:50PM 409 Multiple Criteria Group Decision Making with Triangular Interval Type-2 Fuzzy Sets  
Kuo-Ping Chiao
- 2:10PM 207 Noise Control in Document Classification Based On Fuzzy Formal Concept Analysis  
Sheng-Tun Li and Fu-Ching Tsai

T2FL	Oral	Type-2 Fuzzy Logic	Hao Ying	Thursday, June 30, 1:30PM-2:30PM	Crane
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- 1:30PM 193 Deriving the Input-Output Mathematical Relationship for a Class of Interval Type-2 Mamdani Fuzzy Controllers  
Haibo Zhou and Hao Ying
- 1:50PM 231 Design of Interval of Type-2 Fuzzy Logic Controllers for Flocking Algorithm  
Seung-Mok Lee, Jong-Hwan Kim and Hyun Myung
- 2:10PM 536 Is it rational to partition a data set using Kernel-clustering?  
Kaushik Sarkar and Nikhil R Pal

<b>SS36-2</b>	<b>Special Session</b>	<b>Fuzzy Systems on Renewable Energy</b>	<b>Faa-Jeng Lin</b>	<b>Thursday, June 30, 1:30PM-2:30PM</b>	<b>Egret</b>
1:30PM	312	Fuzzy Quantum Computation Based Thermal Unit Commitment Strategy with Solar-battery System Injection Shantanu Chakraborty, Tomonobu Senju, Atsushi Yona and Toshihisa Funabashi			
1:50PM	46	Control of Doubly-Fed Induction Generator System Using PFNN Faa-Jeng Lin, Kuang-Hsiung Tan, Zong-Han Lu and Yung-Ruei Chang			
<b>FDM&amp;DSS-1</b>	<b>Oral</b>	<b>Fuzzy Decision Making and Decision Support Systems</b>	<b>Bao-Rong Chang</b>	<b>Thursday, June 30, 1:30PM-2:30PM</b>	<b>Swallow</b>
1:30PM	203	Web User Identification with Fuzzy Fingerprints Nuno Homem and Joao Carvalho			
1:50PM	500	Fuzzy Multiattribute Evaluation of Airport Performance Chung-Hsing Yeh, Yu-Hern Chang and Yu-Liang Kuo			
2:10PM	305	An Intelligent Decision Support Tool Based on Belief Rule-Based Inference Methodology Alberto Calzada, Jun Liu, Hui Wang, Luis Martinez and Kashyap Anil			
<b>FOD</b>	<b>Oral</b>	<b>Fuzzy Optimization and Design</b>	<b>Chia-Feng Juang</b>	<b>Thursday, June 30, 1:30PM-2:30PM</b>	<b>Swan</b>
1:30PM	35	Production Planning with Uncertain Demands Guillaume Romain, Kobylanski Przemyslaw and Zielinski Pawel			
1:50PM	69	Min-Max and Two-Stage Possibilistic Combinatorial Optimization Problems Kasperski Adam and Zielinski Pawel			
2:10PM	146	A Fuzzy Concept for Climate Management in Preventive Conservation Christian Arnold, Steven Lambeck and Christoph Ament			
<b>HFS</b>	<b>Oral</b>	<b>Hybrid Fuzzy Systems</b>	<b>I-Fang Chung</b>	<b>Thursday, June 30, 1:30PM-2:30PM</b>	<b>Magpie</b>
1:30PM	225	Fuzzy Controller Design Using Group-Crossover Particle Swarm Optimization for Truck Reversing Control Chia-Feng Juang, Yu-Cheng Chang, Chia-Hung Hsu and I-Fang Chung			
1:50PM	85	Evolving Ensemble of Fuzzy Models Eng Yeow Cheu, Chai Quek and See Kiong Ng			

2:10PM 467 Long Term Bank Failure Prediction using Fuzzy Refinement-based Transductive Transfer Learning  
 Vahid Behbood, Jie Lu and Guangquan Zhang

<b>SS29</b>	<b>Special Session</b>	<b>Software Engineering with Computational Intelligence</b>	<b>Nien-Lin Hsueh</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Swan</b>
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2:50PM 107 Developing a Fuzzy Search Engine Based on Fuzzy Ontology and Semantic Search  
 Lien-Fu Lai, Chao-Chin Wu, Pei-Ying Lin and Liang-Tsung Huang

3:10PM 213 Multi-Agent Automatic Negotiation and Argumentation for Courses Scheduling  
 Jong Yih Kuo, Hsuan-Kuei Cheng, Yong-Yi FanJiang and Shang-Pin Ma

3:30PM 563 Investment Decision Making by Using Fuzzy Candlestick Pattern and Genetic Algorithm  
 Chiung-Hon Lee, Lindroos Hsu and Yi-Ching Liaw

3:50PM 577 Fuzzy Logic as a Basic for Use Case Point Estimation  
 Lee Jonathan, Lee Wen-Tin and Kuo Jong-Yih

4:10PM 524 Fuzzy Lymphedema Assessment based on Clinical and Functional Criteria  
 Ernesto Araujo, Patricia Vicentini and Maria C. J. Perez

<b>SS34</b>	<b>Special Session</b>	<b>Brain and Learning</b>	<b>Toshihiko Watanabe</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Peacock</b>
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2:50PM 293 Decision Making Based on Reinforcement Learning and Emotion Learning for Social Behavior  
 Atsushi Matsuda, Hideaki Misawa and Keiichi Horio

3:10PM 561 Analysis of Relationship between Characteristics of Driver's Eye Movements and Visual Scene in Driving Events  
 Tetsuya Miyoshi and Hidetoshi Nakayasu

3:30PM 233 Directional Control of an Omni-Directional Walker for Walking Support with Forearm Pressures  
 Yinlai Jiang, Shuoyu Wang, Kenji Ishida, Takeshi Ando and Masakatsu G. Fujie

3:50PM 457 Construction of Collision Avoidance Behavior Model Induced by Visual Motion  
 Norifumi Watanabe, Hiroaki Mikado and Takashi Omori

4:10PM 564 Instruction Knowledge Acquisition for Reinforcement Learning Scheme by PSO Algorithm  
 Toru Sawa and Toshihiko Watanabe

<b>SS41</b>	<b>Special Session</b>	<b>Neuro Fuzzy Systems and Their Real World Application</b>	<b>Sungshin Kim</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Crane</b>
2:50PM	542	Daily Reservoir Inflow Forecasting Using Fuzzy Inference Systems Ivette Raymunda Luna Huamani, Rosangela Ballini, Ieda Geriberto Hidalgo, Paulo Sergio Franco Barbosa and Alberto Luiz Francato			
3:10PM	289	A Study on Hybrid Model of HMMs and GMMs for Mirror Neuron System Modeling using EEG Signals Seung-Min Park, Junheong Park, Kwang-Eun Ko and Kwee-Bo Sim			
3:30PM	601	Optimal Input Selection for Neural Fuzzy Modelling With Application to Charpy Energy Prediction Yong Yao Yang, Mahdi Mahfouf and Qian Zhang			
3:50PM	555	Stereo Vision-Based Self-Localization System for RoboCup Jen-Shiun Chiang, Chih-Hsien Hsia, Hung-Wei Hsu and Chun-I Li			
4:10PM	488	Training Multilayer Perceptron By Using Optimal Input Normalization Xun Cai, Kanishka Tyagi and Michael Manry			
<b>SS25</b>	<b>Special Session</b>	<b>Evolving and Adaptive Fuzzy Systems</b>	<b>Plamen Angelov</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Egret</b>
2:50PM	583	Automatic Scene Recognition for Low-Resource Devices using Evolving Classifiers Andreu Javier, Dutta Baruah Rashmi and Angelov Plamen			
3:10PM	415	Real Time Recognition of Human Activities from Wearable Sensors by Evolving Classifiers Javier Andreu, Rashmi Dutta Baruah and Plamen Angelov			
3:30PM	210	Fuzzy Granular Evolving Modeling for Time Series Prediction Daniel Leite, Fernando Gomide, Rosangela Ballini and Pyramo Costa			
3:50PM	84	Combustion Engine Modelling using an Evolving Local Model Network Christoph Hametner and Stefan Jakubek			
4:10PM	71	Rough Set Approach to User Modeling Binghui Helen Wu			
<b>SS24</b>	<b>Special Session</b>	<b>Hybrid Learning for Fuzzy Systems</b>	<b>Jin-Tsong Jeng</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Swallow</b>
2:50PM	212	A Rough-based Robust Support Vector Regression Network for Function Approximation Chih-Ching Hsiao, Shun-Feng Su and Chen-Chia Chuang			

- 3:10PM 32 An Immune Symbiotic Evolution Learning for Compensatory Neural Fuzzy Networks and Its Applications  
Cheng-Hung Chen, Cheng-Jian Lin and Chin-Teng Lin
- 3:30PM 214 Identification of Time-Delay Chaotic System with Outliers: Fuzzy Neural Networks Using Hybrid Learning Algorithm  
Chia-Nan Ko, Yu-Yi Fu, Guan-Yu Liu and Cheng-Ming Lee
- 3:50PM 99 A New Framework of Fuzzy Clustering Algorithm  
Horng-Lin Shieh
- 4:10PM 270 Modeling of Fuzzy Integral Based Nonlinear Multi-regressions Systems with QPSO-GS  
You-Min Jau and Jin-Tsong Jeng

<b>SS35</b>	<b>Special Session</b>	<b>Fuzzy Regression Analysis and Its Applications</b>	<b>M. Hadi Mashinchi</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Phoenix</b>
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- 2:50PM 374 Algorithms for fuzzy linear regression analysis  
Chi-Tsuen Yeh
- 3:10PM 175 Real-Time Analysis of Granular Information: Some Initial Thoughts on a Convex Hull-based Fuzzy Regression Approach  
Azizul Azhar Ramli, Witold Pedrycz, Junzo Watada and Nureize Arbaiy
- 3:30PM 215 An Interval-Based Approach to Fuzzy Regression for Fuzzy Input-Output Data  
Jalal Chachi, Taheri Seyed Mahmoud and Hojat Rezaei Pazhand
- 3:50PM 372 Study of Dependency between the Input Noise and the Parameter in Fuzzy Linear Regression Model  
Hongwei Ge, Shitong Wang and Wei Song

<b>SS32</b>	<b>Special Session</b>	<b>Adaptive Fuzzy Logic Control</b>	<b>Tsung-Chih Lin</b>	<b>Thursday, June 30, 2:50PM-4:30PM</b>	<b>Magpie</b>
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- 2:50PM 20 Direct Adaptive Fuzzy Control for Nonaffine Nonlinear Systems with Unknown Control direction  
Salim Labiod and Thierry Marie Guerra
- 3:10PM 169 An Observer Based Adaptive Iterative Learning Control for Robotic Systems  
Ying-Chung Wang and Chiang-Ju Chien
- 3:30PM 80 Synchronization of uncertain fractional order chaotic systems via adaptive interval type-2 fuzzy sliding mode control  
Tsung-Chih Lin, Tun-Yuan Lee and Emilia Balas Valentina
- 3:50PM 83 Fractional order chaotic system tracking design based on adaptive hybrid intelligent control  
Tsung-Chih Lin, Chia-Hao Kuo and Emilia Balas Valentina

<b>SS22</b>	<b>Special Session</b>	<b>Fuzzy Methods in Machine Learning and Data Mining</b>	<b>Shi-An Chen and Enrique Munoz</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Swan</b>
5:00PM	299	Towards the Learning from Low Quality Data in a Fuzzy Random Forest ensemble Jose M. Cadenas, M. Carmen Garrido, Raquel Martinez and Piero P. Bonissone			
5:20PM	480	Non-monotone averaging aggregation Gleb Beliakov, Shui Yu and Daniel Paternain			
5:40PM	147	Linguistic Local Change Comparison Of Time Series Rita Castillo-Ortega, Nicolas Marin and Daniel Sanchez			
<b>SS07 SS33</b>	<b>Special Session</b>	<b>Metaheuristics and Its Applications &amp; Fuzzy and Paraconsistent Intelligent Systems</b>	<b>Chun-Wei Tsai and Shih-Yu Li</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Phoenix</b>
5:00PM	378	Ant Colony Optimization with Dual Pheromone Tables for Clustering Chun-Wei Tsai, Kai-Cheng Hu, Ming-Chao Chiang and Chu-Sing Yang			
5:20PM	376	Job Shop Scheduling Based on ACO with a Hybrid Solution Construction Strategy Shih-Pang Tseng, Chun-Wei Tsai, Jui-Le Chen, Ming-Chao Chiang and Chu-Sing Yang			
5:40PM	321	The Sensing System for the Autonomous Mobile Robot Emmy III Claudio Torres, Jair Abe, Germano Lambert-Torres and Joao da Silva Filho			
<b>IA</b>	<b>Oral</b>	<b>Informatics &amp; Analytics</b>	<b>Janusz Kacprzyk and Lawrence Mazlack</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Crane</b>
5:00PM	297	On a benchmark related assessment of the performance of mutual (investment) funds Anna Wilbik and Janusz Kacprzyk			
5:20PM	545	Discerning Suicide Notes Causality Using Fuzzy Cognitive Maps Ethan White and Lawrence Mazlack			
<b>SS13-2</b>	<b>Special Session</b>	<b>Fuzzy Multiple Criteria Decision Making</b>	<b>Gwo-Hshiung Tzeng</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Egret</b>
5:00PM	235	Constant Penalty Functions to Simplify Optimization of the Choquet Integral under Constraints Tanja Magoc			
5:20PM	489	Design of a reliable hub-and-spoke network using an interactive fuzzy goal programming Mohammad Hossein Fazel Zarandi, Soheil Davari and Ali Haddad Sisakht			

<b>FDM&amp;DSS-2</b>	<b>Oral</b>	<b>Fuzzy Decision Making and Decision Support Systems</b>	<b>Kuang-Yow Lian and Lun-De Liao</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Swallow</b>
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- 5:00PM 198 Connection Manager : A FAHP-based System for Classifier and Decision-Making  
Chih-Wei Hsu and Sheng-Tzong Cheng
- 5:20PM 460 Approximate Confidence Interval for Generalized Taguchi Process Capability Index  
Abbas Parchami, Mashaallah Mashinchi and M. Hadi Mashinchi
- 5:40PM 131 Generalized Intuitionistic Fuzzy Soft Set and its Application in Practical Medical Diagnosis Problem  
Manish Agarwal, Madasu Hanmandlu and Kanad K. Biswas

<b>FCW&amp;PT</b>	<b>Oral</b>	<b>Fuzzy Computing with Words and Possibility Theory</b>	<b>Chin-Wang Tao</b>	<b>Thursday, June 30, 5:00PM-6:00PM</b>	<b>Peacock</b>
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- 5:00PM 434 Indirect Adaptive Model Predictive Control Supervised by Fuzzy Logic  
Jerry Mamboundou and Nicolas Langlois
- 5:20PM 319 Maximum likelihood principle for possibility distributions viewed as families of probabilities  
Mathieu Serrurier and Henri Prade