

Table of Contents

Índice

Page/Pág.

Computational Intelligence

Conditions and Constraints for better Approximate Reasoning with Fuzzy Logic.....	3
<i>Ruben Ruelas, Donald Carr</i>	
Parameter Estimation of BACK equation of Sate Via Gray-Box Neural Network Models	16
<i>Ulises Ivan Bravo Sanchez, Florianne Castillo Borja, Ramiro Rico Martinez, Gustavo Arturo Iglesias Silva</i>	
Implementation of Data Fusion in a Probabilistic Neural Network (PNN) for Classification of Fruit Ripening Stages	27
<i>Jorge Isidro Aranda, Arturo Baltazar</i>	
Flexural Strength Prediction of Slabs with Finished Type Tile: A Neural Network Approach	38
<i>Jorge Acevedo-Dávila, Luis Torres Treviño</i>	
Hardware/Software Partitioning of Coarse-Grained Reconfigurable System Using Evolutionary Ant Colony Optimization	45
<i>Dawei Wang, Yafei Cao, Sikun Li</i>	
Discovering Efficient Turbo Code Interleavers by Genetic Algorithms	56
<i>Pavel Krömer, Vaclav Snasel, Nabil Ouddane</i>	
A Comparative Study of a Fuzzy Similarity Measure Aggregated with Fuzzy Implications Applied to Shape Recognition	66
<i>Leila Baccour, Wafa Maghrebi, Slim Kanoun, Mohamed Adel Alimi</i>	
Uncertainty Management in Context-Aware Applications.....	77
<i>Pedro Damián-Reyes, Jesús Favela, Juan Contreras-Castillo, JRG Pulido</i>	

Knowledge Representation and Reasoning

Basic Transformations that Preserve G'3-stable Equivalente	89
<i>José Luis Carballido, Mauricio Osorio, José Arrazola</i>	
Rewards in Persuasive Group Decision Making	99
<i>Ricardo Santos, Goreti Marreiros, Carlos Ramos, José Neves, José Bulas-Cruz</i>	
Representation and Reuse of Design Knowledge and Design Rationale for Design Decision-Making	111
<i>Jie Hu, Yinghong Peng, Guangleng Xiong</i>	
Modeling Ontology-Based Task Knowledge for PMBOK: A Three-Layer Method.....	120
<i>Kwoting Fang, Chingwei Chang, Yenping Chi</i>	
Analysis and Classification of Car Engine Sounds to Diagnose Failures.....	131
<i>Luis Andrés Méndez-Ortega, Orion Fausto Reyes-Galaviz</i>	

Study on the Multiagent Based Model System and Model Integration	141
<i>Daiping Hu, Ruiming Wu, Mengyu Li, Qi Wang</i>	
Defeasible Decision Making in a Multi-Robot Environment	150
<i>Edgardo Ferretti, Nicolas Rotstein, Marcelo Errecalde, Alejandro Garcia, Guillermo R. Simari</i>	
Normative Conflict Detection for e-Contracts.....	161
<i>Georgios K. Giannikis, Aspasia Daskalopulu</i>	

Machine Learning

Tri-Testing: A Novel Semi-Supervised Learning Method based on Ensemble Learning and Active Learning	175
<i>Shota Kubo, Masahiro Terabe, Kazuo Hashimoto, Ryuta Ono</i>	
Statistical Selection of Relevant Features to Classify Random, Scale Free and Exponential Networks	185
<i>Tania Turrubiates López, Claudia Gómez Santillán, Laura Cruz Reyes, Rogelio Ortega Izaguirre, Eustorgio Meza Conde</i>	
A First Approach to Understanding the Anomalies on My PC	193
<i>Luis M. Fernandez, Hugo Terashima-Marín, Manuel Valenzuela-Rendón</i>	
Modelling and Prediction of the MXNUSD Exchange Rate Using Hybrid RLS-BP Interval Type-1 Non-Singleton Type-2 Fuzzy Logic Systems	204
<i>Gerardo M Mendez, Angeles Hernandez</i>	
Entropy Based Linear Approximation Algorithm for Time Series Discretization ..	214
<i>Acosta-Mesa Héctor-Gabrie, Cruz-Ramírez Nicandro, García-López Daniel-Alejandro</i>	

Constraint Programming, Planning, and Scheduling

Process Calculi for Adaptive Enumeration Strategies in Constraint Programming	227
<i>Eric Monfroy, Carlos Olarte, Camilo Rueda</i>	
Variable and Value Selection Heuristics: Application to Solve Puzzles	238
<i>Broderick Crawford, Mary Aranda</i>	
Comparison between Genetic Algorithms with Exaptation and Case Injected Genetic Algorithm in dynamic job shop problems	249
<i>Luis Torres Treviño</i>	
Research on Dynamic OD Analysis for Urban Traffic.....	258
<i>DONG Hong-zhao, ZHOU Min, GUO Ming-fei, Qian Xiao-hong</i>	
Case-Based Route Planning in the Mexico City Subway System	269
<i>Andrés Gómez de Silva Garza, Lourdes Domenzain Ortega</i>	
Analysis of the Simulated Annealing Convergence in Function of the Standard Deviation and the Boltzmann Quotient for Scheduling Problems	282
<i>Martín G. Martínez-Rangel, Marco Antonio Cruz-Chávez, José Crispín Zavala-Díaz, David Juárez-Romero, Ocotlán Díaz-Parra</i>	

Natural Language Processing

Comparison of Three Algorithms for Automatic Keyword Extraction	297
<i>Mayra A. Paredes-Farrera, Hiram Calvo</i>	
Homonymy Resolution and Tagging of Grammar Classes without Lexical Information using Neural Networks*	305
<i>Ernesto Gómez-Balderas, Grigori Sidorov, Héctor Jiménez-Salazar</i>	
Extract Conceptual Graphs from Plain Texts in Patent Claims	315
<i>Shih-Yao Yang, Von-Wun Soo</i>	
A Construction of Emotion Thesaurus Basing on Chinese Character and Empirical Knowledge	330
<i>Yu Zhang, Zhuoming Li, Fuji Ren, Shingo Kuroiwa</i>	
Music Composition using the EMILE Grammar Inductor	341
<i>David Ortega-Pacheco, Hiram Calvo</i>	
Managing the Workflow of Massive Feeding of Digital Libraries	352
<i>Angeles S. Places, Nieves R. Brisaboa, Jose R. Parama, Oscar Pedreira, Diego Seco</i>	
English Speech to Sanskrit Speech Translator	363
<i>Abhradeep Guha Thakurta, Ashwath Kumar K., Hashir Khan</i>	
Color Features Based Speaking Detection with Hidden Markov Model in Video Sequences	374
<i>Peilin Jiang, Ran Li, Fuji Ren, Shingo Kuroiwa, Nanning Zheng</i>	

Intelligent Tutoring Systems

Authoring Fuzzy-based Tutoring Systems for M-Learning	385
<i>Ramón Zatarain, M. L. Barrón-Estrada, Guillermo A. Sandoval-Sánchez, L. Vega-Zazueta, Carlos A. Reyes-García</i>	
An Approach to Learning Objects Classification using an Auto-Associative Neural Network	395
<i>Clara Pérez-Molina, Miguel Rodríguez-Artacho</i>	
L2Code: An Author Environment to Integrate Multiple Intelligences and Naive Bayesian Classifiers for MultiParadigm-Programming Training	406
<i>M. L. Barron-Estrada, Ramon Zatarain-Cabada, J. Moises Osorio- Velazquez, L. Zepeda-Sanchez, Carlos A. Reyes-Garcia</i>	

Intelligent Biomedical Applications

Pre Diagnostician of Heart Arrhythmias Using Wavelet Transform and Fuzzy c-Means	419
<i>Ramón Miranda, Isaac Chairez, Agustín Cabrera</i>	
Hierarchal Fuzzy Logic Medical Database with Decision Algorithm for Metabolic Syndrome Diagnosis	430
<i>I. Salgado, A. Rodríguez, J. Chairez, A. Zúñiga, P. Santillan</i>	
Rule-Based Expert System to Determine the Likely Diseases in an Air-Polluted Environment	442

<i>R. V. Díaz, Zenaida García, Mateo Lezcano, Elena Rosa Dominguez</i> Using Formal Concept Analysis to Leverage Ontology-Based Foot Acu-Point Massage Knowledge System	450
<i>Kwoting Fang, Chingwei Chang, Yenping Chi</i> Descriptive Characteristics Generation and Selection for Acute Leukemia Subtype Classification from Bone Marrow Digital Images.....	460
<i>M. Coral Galindo Domínguez, Jesús A. González, Leopoldo Altamirano</i> <i>Robles, Ivan Olmos Pineda</i> An Electronic Game with Speech Recognition for Children with Problems of Speech	471
<i>Carlos Miranda-Palma, Reyna Camal-Uc, José Cen-Magaña, Cinhtia</i> <i>Gonzalez-Segura, Sergio Gonzalez-Segura, Manuel Escalante, Jorge Ríos</i> Simulating Lumbar Spine Motion: Parameter Estimation for Realistic Modeling	480
<i>Ahmed Sameh</i>	
Author Index	491
Índice de autores	
Editorial Board of the Volume	493
Comité editorial del volumen	
Additional Reviewers	493
Árbitros adicionales	