

Table of Contents

Índice

Page/Pág.

Knowledge Acquisition and Neural Networks

Knowledge Discovery for Knowledge Based Systems. Some Experimental Results	3
<i>Rancan C., Kogan A., Pesado P. and García-Martínez R.</i>	
Finding Optimal Neural Network Architecture Using Genetic Algorithms	15
<i>Fiszelew A., Britos P., Ochoa A., Merlino H., Fernández E. and García-Martínez, R.</i>	
Mammographic Images Analysis by Use the RMRBF Neural Network	25
<i>José A. Moreno-Escobar, Francisco J. Gallegos-Funes, Rene Cruz-Santiago and Volodymyr I. Ponomaryov</i>	

Fuzzy Logic

Automatic Determination of Parameters for Rule Base Reduction of Complex Fuzzy Control Systems	37
<i>Yulia Ledeneva, Alexander Gelbukh, Carlos A. Reyes García and René A. García Hernández</i>	
Toward Fuzzy Data Warehouses and Fuzzy Inference	49
<i>Angélica Urrutia Sepúlveda and Marcela Varas Contreras</i>	

Optimization

A Simulated Annealing Approach for Multistage Portfolio Optimization	65
<i>Maria A. Osorio, Erika C. Jimenez, A. Sánchez L. and Miguel A. Gómez</i>	

Image Processing

Star Fields: Improvements in Shape-Based Image Retrieval.....	79
<i>Alberto Chávez-Aragón, Oleg Starostenko and Leticia Flores Pulido</i>	
3D Rank Median L-Filters to Process Video Sequences	91
<i>Jose Luis Varela-Benitez, Francisco Gallegos-Funes, Rene Cruz-Santiago and Volodymyr Ponomaryov</i>	
Image Block Edge Classification with Block/Subblock Conversion in the Discrete Cosine Transform Domain	101
<i>Javier Vega-Pineda, José A. Salinas-Terrazas and Rafael Sandoval-Rodríguez</i>	
A New Efficient Approximation Algorithm for Chromatic Number.....	113
<i>Guillermo De Ita, Meliza Contreras and Erica Vera</i>	

Natural Language Processing

Semantically Mapping the Web.....	125
<i>Eduardo Ramirez and Ramon Brena</i>	
Keywords Extraction in Clusters of Related Documents.....	137
<i>Leticia Arco, Damny Magdaleno, Rafael Bello, Manuel Llanes and Libernys Valdés</i>	
Design of an Explicative Combinatory Dictionary for Spanish Verbs	149
<i>Gaspar Ramirez, Jim Fidelholtz and Héctor Jiménez-Salazar</i>	
On the Use of Dynamic Information for Speaker Identification	161
<i>Rosa M. Ortega-Mendoza, Esaú Villatoro-Tello, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez and Eduardo F. Morales</i>	

Agents

Intelligent Virtual Environments for Training:A Tutoring Approach	169
<i>Raúl A. Aguilar, Brunny Troncoso, Angélica de Antonio and Ricardo Imbert</i>	
Computing, Interaction and Multi-Agent Systems: A Formal Language Approach	181
<i>Gemma Bel-Enguix and M. Dolores Jiménez-López</i>	
Multi-Agent Based Control for Urban Traffic Networks	191
<i>Joel A. Trejo Sánchez and Julio C. Ramírez Pacheco</i>	

Time Series

On a New Approach to Time Series Tracking.....	205
<i>Karinne Ramírez-Amaro and Juan Carlos Chimal-Eguía</i>	
A Tool for Long-memory Analysis in Computer Network Time Series	217
<i>Julio C. Ramírez Pacheco, Deni Torres Román and Joel Trejo Sanchez</i>	

Robotics and Control

Biologically-Plausible Reactive Behaviors for Robots and Virtual Characters.....	231
<i>Abraham Sánchez L., Gerardo Garcia L. and René Zapata</i>	
Haptic Guided Exploration of Deformable Objects.....	243
<i>Omar Arturo Domínguez-Ramírez and Vicente Parra Vega.</i>	
An Intelligent Traffic Signal Control Based on EVALPSN	255
<i>Kazumi Nakamatsu and Jair Minoro Abe</i>	
Fault Detection Combining PCA, Control Charts and Statistic Operation Limits	267
<i>Juan Pablo Nieto González, Luis E. Garza Castañón and Rubén Morales Menendez</i>	

Computer Networks and Web Services

Videoconference Transport in the IP Core Network of a 3G Mobile System using DiffServ.....	281
<i>Ernesto Quiroz, Jesús Leal and Rogelio Rodríguez</i>	
Workflow Partitioning to Support Decentralised P2P Based Enactment	291
<i>Tariq Noor Ellahi, Francesco Nerieri and Tahar Kechadi.</i>	
A Service-Oriented Architecture for Collaboratively Browsing the Web	305
<i>Guillermo de Jesús Hoyos-Rivera, Giner Alor-Hernández, Roberta Lima Gomes, Roberto Willrich and Jean-Pierre Courtiat</i>	
Author Index	319
Índice de autores	
Editorial Board of the Volume	321
Comité editorial del volumen	
Additional Reviewers.....	321
Árbitros adicionales	