

Table of Contents

	Page
Using Conceptual Frames to Define a Representation for a Medical Expert System that Evaluates Visual Pathologies	9
<i>Eduardo Eloy Loza Pacheco, Miguel Jesús Torres Ruiz, Dulce Lourdes Loza Pacheco, Augusto Dobeslao Hernandez Lopez</i>	
An Elitism Based Genetic Algorithm for Welding Sequence Optimization to Reduce Deformation	17
<i>Jesus Romero-Hdz, Sinai Aranda, Gengis Toledo-Ramirez, Jose Segura, Baidya Saha</i>	
Finding Events in Background EEG in Rats in Early Posttraumatic Period	37
<i>Ivan A. Kershner, Yurii V. Obukhov, Ilya G. Komoltsev</i>	
Exploring Dynamic Environments Using Stochastic Search Strategies	43
<i>C. A. Piña-García, Dongbing Gu, Carlos Gershenson, J. Mario Siqueiros-Garca, E. Robles-Belmont</i>	
A Solution Proposal for the Capacitated P-Median Problem with Tabu Search	59
<i>Mauricio Romero Montoya, María Beatriz Bernábe Loranca, Rogelio González Velázquez, José Luis Martínez Flores, Horacio Bautista Santos, Abraham Sánchez Flores, Francisco Macías Santiesteban</i>	
Tuning the Parameters of a Convolutional Artificial Neural Network by Using Covering Arrays	69
<i>Humberto Pérez-Espinosa, Himer Avila-George, Josefina Rodriguez-Jacobo, Hector A. Cruz-Mendoza, Juan Martínez-Miranda, Ismael Espinosa-Curiel</i>	
A Meta-Heuristic Based on Genetic Algorithm for Selecting Bailiffs by Districts	83
<i>Ribamar Loura do Carmo, Omar Andres Carmona Cortes, Fernando Jorge Cutrim Demétrio</i>	
Artificial Vision System Using Mobile Devices for Detection of Fusarium Fungus in Corn	95
<i>Pedro Salazar, Saul Ortiz, Talhia Hernández, Nestor Velasco</i>	

Determination of the Ripeness State of Guavas Using an Artificial Neural Network	105
<i>Edwin M. Lara-Espinoza, Monica Trejo-Duran, Rocio A. Lizarraga-Morales, Eduardo Cabal-Yeppez, Noe Saldana-Robles</i>	
A BDI Agent System for the Collaboration of the Unmanned Aerial Vehicle.....	113
<i>Mario Hernandez Dominguez, Jose-Isidro Hernández-Vega, Dolores Gabriela Palomares Gorham, C. Hernández-Santos, Jonam L. Sánchez Cuevas</i>	
CAD design and Identification of Hydrodynamic Parameters of an Underwater Glider Vehicle	125
<i>Jorge Díaz Moreno, Reynaldo Ortíz Pérez, Eduardo Campos Mercado, Luis Fidel Cerecero Natale</i>	
Oncological Analysis Using Data Mining	139
<i>Doricela Gutiérrez Cruz, Ricardo Rico Molina, Liliana Rodríguez Páez, Karla Vilchis Hernández, Bernardo Soto Rivera, Yaroslaf Albarrán Fernández, Alma Gutierrez Cruz, Mónica Ortega</i>	
Feature Subset Selection and Typical Testors Applied to Breast Cancer Cells	151
<i>Alexis Gallegos, Dolores Torres, Francisco Álvarez, Aurora Torres</i>	
Fuzzy Logic Controller for Speed and Torque in AC Servo System.....	165
<i>L. Rodrigo Silva Sánchez, Antonio Hernández Zavala, Jorge A. Huerta Ruelas</i>	