

Table of Contents

Índice

	Page/Pág.
Analysis and Risk Assessment of the Real Time Volcanic Monitoring System.....	3
Luis Enrique Colmenares Guillén and Omar Ariosto Niño Prieto	
Building a Minimal Spanning Tree for the #2SAT Problem.....	15
Guillermo De Ita, Meliza Contreras, Pedro Bello	
A Hybrid Evolutionary Algorithm for the Edge	
Crossing Minimization Problem in Graph Drawing.....	27
Sergio Enríquez, Eunice Ponce de León, Elva Díaz and Alejandro Padilla	
A New Approach to Music Information Retrieval using Dynamic Neuronal Networks.....	41
L.E. Gomez, J.H. Sossa, R. Barron, J.F. Jimenez	
Conformal geometric algebra and sphere fitting applied to colour image segmentation.....	53
Luis Horna, Ricardo Barrón and Giovanni Guzmán	
Algorithm of support for the detection of the Acute Lymphoblastic Leukemia.....	59
Susana Ordaz Gutiérrez, Fabián Torres Robles,	
Francisco Javier Gallegos Funes, Alberto Jorge Rosales Silva.	
Formal Verification for the Absence of Deadlock in the Manager Workers Pattern.....	73
Jorge Luis Ortega-Arjona and Francisco Hernández-Quiroz	
Medical Carnet for Management of Patients Driven by Ontologies.....	85
F. Mata and S. Zepeda	
Design of a High Dynamic Range ADC by Concatenating Low Resolution Samples.....	97
Miguel Santiago Villafuerte Ramírez, Alfonso Gutiérrez Aldana	
and Luis Pastor Sánchez Fernández	
A Software Tool for the Analysis of Similarity in Recurrence Patterns.....	109
Ernesto Bautista-Thompson, Roberto Brito-Guevara, Jesús E. Molinar-Solis	
Intelligent and Adaptive User Interfaces for Ubiquitous Learning.....	119
Héctor Antonio Villa Martínez, Francisco Javier Tapia Moreno	
Using the Software Process Improvement approach for defining a Methodology for Embedded Systems Development using the CMMI-DEV v1.2.....	127
García, I. and Herrera, A.	
Population Coding and SpikeProp Hardware Accelerator for Spiking Neural Networks.....	145
Marco Aurelio Nuño-Maganda, Cesar Torres-Huitzil, and Miguel Arias-Estrada	
An Intelligent Virtual Agent for Collaborative Learning looking to be part of the Team.....	157
Raúl A. Aguilar, Angélica de Antonio, Ricardo Imbert and Adriana Peña	
Distributed System for Assessment of Water Quality in Shrimp Aquaculture Systems.....	169
José Juan Carbajal Hernández, Raúl A. Valero Cruz	
and Mauricio Suárez López	

Intelligent Fault Diagnosis and Prognosis using state validations in a drinking water plant.....	179
Hector Hernandez, Jorge Camas, Nicolás Juárez, Madaín Pérez, Rafael Mota1 and Claudia Isaza	
Web-Mapping Application to Retrieve Spatial Data by means of Spatial Ontologies.....	191
Miguel Torres, Marco Moreno, Rolando Quintero and Giovanni Guzmán	
Applying Diverse Data Mining Methods in the Electric Power Industry.....	209
Manuel Mejía-Lavalle, Guillermo Rodríguez O., Gustavo Arroyo F. and Eduardo F. Morales	
Using WEKA for Semantic Classification of Spanish Verb-Noun Collocations.....	221
Olga Kolesnikova and Alexander Gelbukh	
Experimenting with Maximal Frequent Sequences for Multi-Document Summarization.....	233
Yulia Ledeneva, René Arnulfo García-Hernández, Anabel Vazquez-Ferreira, Nayely Osorio de Jesús	
Establishing a Software-Subcontracting Management Model to Improve the Software-Subcontracting Process in Small-size Enterprises.....	245
García, I. and Pacheco, C.	
Supporting the Management Process of Software Process Improvement Initiatives based on NMX-I-059/02-NYCE-2005.....	261
García, I. and Cruz, D.	
Security and Adaptability to Groupware Applications using a Set of SOA-based Services.....	279
Mario Anzures-García, Luz A. Sánchez-Gálvez, Miguel J. Hornos, and Patricia Paderewski-Rodríguez	
Using the CPAN Branch & Bound for the Solution of Travelling Salesman Problem.....	291
Mario Rossainz López, Manuel I. Capel Tuñón	
Fast Automatic Retinal Blood Vessel Segmentation and Vascular LandmarksExtraction Method for Biometric Applications.....	303
Fabiola M. Villalobos-Castaldi, Edgardo M. Felipe-Riverón	
Implementation of a swarm intelligence algorithm to a mobile device.....	317
L.E. Gomez, J.F. Jimenez, J.H. Sossa, F.J. Cuevas, O. Pogrebnyak, R. Barrón	
Demodulation of a single Interferogram by use a Parametric Method based on a Differential Evolution.....	327
J.F. Jimenez, F.J. Cuevas, J.H. Sossa, L.E. Gomez	
Enhancing the Diagnosis Module in a Self-healing Architecture Supporting Web Service Applications.....	337
Francisco Moo-Mena, Fernando Curi-Quintal, Juan Garcilazo-Ortiz, Luis Basto-Díaz, and Roberto Koh-Dzul	
Author Index.....	349
Índice de autores	
Editorial Board of the Volume.....	351
Comité editorial del volumen	