

Table of Contents

| | Page |
|--|------|
| Crime Prediction Using Computer Vision: Data Selection, Balancing, and Representation | 5 |
| <i>L. Enrique Morales-Márquez, J. Arturo Olvera-López, Iván Olmos-Pineda</i> | |
| Impact of Combined Attacks on Spam Detection: Targeted Poisoning and Backdoors | 17 |
| <i>Samantha Acosta-Ruiz, Mireya Tovar-Vidal, José A. Reyes-Ortiz</i> | |
| Parallel Video Tracking System based on Honeybee Swarm Behavior and Evaluated on a Benchmark Dataset | 31 |
| <i>Juan Alvaro de la Rosa-Ipiña, Carlos Soubervielle-Montalvo, Cesar Puente, Ruth Mariela Aguilar-Ponce, Luis Javier Ontañón García-Pimentel</i> | |
| Updating and Evaluating the Struck Tracker: A Comparative Study on the ALOV300++ Benchmark | 45 |
| <i>Víctor Alejandro Méndez-López, Carlos Soubervielle-Montalvo, Cesar Puente-Montejano, Rafael Peña-Gallardo, Emilio Jorge González-Galván</i> | |
| An Experimental Study on the Analysis of Gait Disorders Through Multimodal Feature Extraction | 59 |
| <i>Iván J. Sánchez-Cuapio, Ricardo Ramos-Aguilar, Paola A. Niño-Suárez, Karla M. Cerón-Arriaga</i> | |
| A Methodological Framework for Detecting Benevolent Misogynistic Hate Speech in Mexican Political Discourse Using Transformer-Based Models | 73 |
| <i>Monserrat Sánchez-Juárez, Eric Ramos-Aguilar, Daniel Sánchez-Ruiz, Ricardo Ramos-Aguilar</i> | |
| Instrument Recognition Using Spectral Features and SVM | 87 |
| <i>María Fernanda Arámburo-Castell, Juan Pintor-Michimani</i> | |
| Literature Summary Based on TF-IDF with Term-Term Correlation Matrix Analysis | 99 |
| <i>Cybele Neves-Moutinho, María Fernanda Arámburo-Castell</i> | |
| RGB Image Compression Using Discrete Cosine Transform via Fixed Quantization Matrix | 111 |
| <i>Michelle Guerra-Marín, Cybele Neves-Moutinho</i> | |

| | |
|--|-----|
| Optimization of Audio Cover Detection Using Genetic Algorithms and Dynamic Time Warping | 121 |
| <i>Juan Francisco Pintor-Michimani, Michelle Guerra-Marín</i> | |
| Node-weighted Graph Convolutional Network for Alzheimer's Dementia Detection from Transcribed Clinical Interviews with Data Augmentation | 133 |
| <i>Lourdes Beatriz Cajica-Maceda, Perla Noemí Mendez-Zavaleta, Hugo Jair Escalante-Balderas, Jesús Ariel Carrasco-Ochoa, José Francisco Martínez-Trinidad</i> | |
| Intersubject Variability in Classification Models for Brain-Computer Interfaces | 143 |
| <i>Eduardo V. Pérez-Hernández, Margarita Aviña-Corral, Zaida Adriana Gárate-Cahuantzi, J. A. Carrasco-Ochoa, José Fco. Martínez-Trinidad, Alejandro A. Torres-García</i> | |