

Table of Contents

	Page
Detection and Classification of Brain Tumors in MRIs Using CNNs <i>Brandon Alejandro Llaca-Sánchez, Dulce Sofía Marín-Chávez, Alejandra Vilchis-Yubi</i>	5
From Simple Detection to Quality-aware Prediction: Exploring Argument Complexity with Machine Learning <i>Anvi Alex-Eponon, Muhammad Tayyab-Zamir, Lemlem Kawo-Eyob, Luis Israel Ramos-Perez, Ildar Bartyrshin, Grigori Sidorov, Olga Koleniskova, Francisco Hiram Calvo-Castro, Alexander Gelbukh</i>	19
Assessing the Impact of Data Augmentation on Photovoltaic Module Faults Detection Using Deep Learning Models <i>Luis E. Montañez, Luis M. Valentín-Coronado, Daniela Moctezuma, Diego A. Mercado-Ravell</i>	35
Automatic COPD Detection through Vocal Emissions Using Intelligent Audio Analysis <i>Carlos Leyva-Bravo, Ivan Gallardo-Bernal, Humberto Pérez-Espinosa</i>	47
SS-DTL: Semantic Segmentation with Dual Transfer Learning in Leukemic Retinopathy Using Knowledge from Diabetic Retinopathy <i>Edgar Gilberto Platas-Campero, Raquel Díaz-Hernández, Leopoldo Altamirano-Robles</i>	59
Role of Sparse Training and Evolutionary Optimization in Volatility Forecasting Models..... <i>Juan Francisco Muñoz-Elguezabal, Diego F. Arriaza-Alonzo</i>	073
Sólo Escúchame: Spanish Emotional Accompaniment Chatbot..... <i>Martin Mikula, Xiaoying Gao, Kristína Machová Bruno Gil-Ramírez, Jessica López-Espejel, María del Carmen Santiago-Díaz, Gustavo Trinidad Rubín-Linares</i>	93
Predicting University Student Dropout with Extracurricular Activities Participation Using Machine Learning Models: A Case Study at Tecnológico de Monterrey..... <i>Francisco Mestizo, Alberto Orozco, Belén González, Eunice Santos, Neil Hernandez-Gress</i>	107

US Airlines Twitter Opinion Analysis: Classifying Positive or Negative
Comments 119
Raul Jimenez-Cruz, Galo Ruiz-Soto, Miguel Gonzalez-Mendoza