

Journal of Advances in Information Technology

CONTENTS

Volume 17, Number 1, 2026

- ML and DL Approaches for Drug Review Classification Using a Composite Effectiveness–Satisfaction Score 1
*Blessing Nwogu, Essia Hamouda, and Khouloud Safi Eljil**
- Advanced Techniques for Spatio-Temporal Data Management in Graph Databases—A Systematic Review 14
Farah Ilyana Hairuddin, Suhaibah Azri, and Uznir Ujang*
- Behavioral Authentication Model for Smartphone Users Based on Gyroscope and Accelerometer Data for Mobile Educational Resources 34
*Vassily V. Serbin and Aray M. Kassenkhan**
- Classification of Batik Patterns Using Inception-ResNetV2 with Data Augmentation 42
Budi D. Satoto, Wahyudi Agustiono, Suraya B. Hamid, Novia P. Ramadhani, Fiola L. Rafelina, Chafi A. R. Zakiy, Budi Irmawati, and Deshinta A. Dewi*
- PolyVision: Optimising Retinal Disease Detection Through Collaborative Neural Networks 55
Sultan Ahmad, Swathi Kalam, Eali Stephen Neal Joshua, Hikmat A. M. Abdeljaber, and Hessa Alfraihi*
- Evaluation of Databases for Digital Twins and Industrial Internet of Things: A Comparative Analysis 65
Bauyrzhan Amirkhanov, Azim Aidynuly, Murat Kunelbayev, Gulshat Amirkhanova, Timur Ishmurzin, and Dinara Zhaisanova*
- Toward an Embedded Semantic Reasoning Database: From Similarity Search to Semantic Discovery 75
Gerry Wolfe, Ashraf Elnashar, and William Schreiber*
- A Comprehensive Study of Image-Based 3D Reconstruction Using Deep Learning 86
Ajit B. Aher and R. A. Kapgate*
- Enhancing Gold Price Forecasting Using Machine Learning Models Optimized with Metaheuristic Algorithms 107
Alaa N. Sawalha, Mohammed A. Al-Betar, and Sharif N. Makhadmeh*
- Mapping Continental Water Bodies in the Peruvian Andes Using Machine Learning and Sentinel-2 Imagery 122
José Sulla-Torres, Luis Barrios-Lipa, Bryan Toribio-Obando, Enrique Zúñiga-Portilla, Manuel Zúñiga-Carnero, Karina Rosas-Paredes, and Gwendolyn Peyre*
- SymLink: Multi-Agent NLP System for Medical Triage Optimization and Symptom Association Discovery 133
Seethalakshmi Palaparathi, Dhawaleshwara Rao Chamala, and Swaroopa Korla*
- Feature Selection for High-Dimensional Data: A Case Study of NFT Valuation 141
*Geun-Cheol Lee, Heejung Lee, and Hoon-Young Koo**

Novel Human Object Detection Method Based on YOLO Deep Learning Optimization Strategy	153
<i>Ting Zhang, Shuqi Niu, Lu Chen, Chenhui Dou, Tao Liu*, and Degan Zhang*</i>	
A Deep Knowledge-Infused Adaptive Hybrid Network for Speech-Based Depression and Severity Detection	171
<i>Raminder Kaur Nagra and Vikram Kulkarni*</i>	
Smart Crop Recommendation for Precision Agriculture: A Comparative Analysis of Ensemble and Deep Learning Models Using Soil and Environmental Data.....	190
<i>Kanda Sorn-In, Wirapong Chansanam, and Pathamakorn Netayawijit*</i>	