

Journal of Advances in Information Technology

CONTENTS

Volume 15, Number 12, 2024

- Automated GI Tract Segmentation with U-Net: A Comparative Study of Loss Functions1304
*Bindu Madhavi Tummala**, *Subba Reddy Chavva*, *Yallamandaiah S.*, *A. Radhika*, *Dasari Chinna Veeraiah*,
Rishitha Jaladi, and *Aruna Kumari Peruri*
- A Novel Trans-Dataset Ensemble Architecture for Sign Language Recognition1315
*Noppon Lertchuwongsa** and *Komsan Kanjanasit**
- Weather Forecasting Using Machine Learning Techniques: Rainfall and Temperature Analysis1329
*Adil Hussain**, *Ayesha Aslam*, *Sajib Tripura*, *Vineet Dhanawat*, and *Varun Shinde*
- A Study on Cell-Based Algorithms for Nearest-Neighbor Search between Hexagonal Clusters1339
*Marina Prvan**, *Jean-Baptiste Sauvan*, *Josip Musić*, and *Ante Kristić*
- Optimized YOLO and Semi-Supervised Fuzzy Graph Convolutional Network (SSFGCN) For Surface Defect Recognition.....1355
Samyuktha Sasi Sekaran and *M. Subaji**
- Human Emotion Recognition Based on Facial Expression Using Convolution Neural Network.....1366
*Gheed T. Waleed** and *Shaimaa H. Shaker*
- Automatic Segmentation of Table Tennis Match Video Clips Based on Player Actions for Enhanced Data Acquisition1374
Zhong-Kai Wei and *Jieh-Ren Chang**
- Development of Feature Extraction for CT-scan Images in Detecting Auditory Ossicle Erosion1380
*Yogi Wiyandra**, *Iskandar Fitri*, and *Yuhandri*
- Secure and Energy-Efficient Edge Computing Platform with Customized RISC-V1392
*Cuong Pham-Quoc** and *Nguyen The Binh*
- Context-Aware Architecture Fostered Optimized Dual Interactive Wasserstein Generative Adversarial Network and IoT for Healthcare System1400
Kancharla Lakshmi Prasanna and *Yamarthi Narasimha Rao**