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knowledge. -- RAG Prompting for Mental Health Classification with LLM: A Resource-Efficient Alternative to Instruction Tuning. -- Detecting AI-Generated Vietnamese News Articles with Multilingual-E5 and BERT. -- Time Series Classification based on Motif Information and Random Forest Algorithm. -- Deep Learning-Based Classification of Ovarian Cancer Subtypes in Histopathology. -- Illuminating Advances: A Comprehensive Review of Optical Character Recognition for the English Language. -- Imbalanced Data Handling in Financial Distress Prediction: Resampling or Weighted Loss? -- Spatial-Temporal Feature Extraction for Tanzanian Sign Language Recognition in Medical Diagnostics. -- Convolutional Neural Network to Classify Lumber Spine Degenerative Conditions from MRI Images. -- Time Series Classification Using HMM and GMM with Pomegranate Library. -- Control Systems. -- Formation Control of Wheeled Mobile Robots for Moving Target Circumnavigation Using Distributed Estimator and Dynamic Surface Control. -- Integrating Visual Attention into Deep Reinforcement Learning for Enhanced Control in Racing Games. -- PlanFormer: Enhancing Transformer-based Closed-loop Planning Performance for Autonomous Driving. -- EMG-Based Upper Limb Joint Angle Estimation Using LSTM and High-speed Tracking System. -- Design of Control of Battery Storage System for Enhance Power Tracking following the Composite PID model. -- Hybrid Metaheuristic Speed Controller for Uncertain Permanent Magnet Synchronous Motor. -- Advanced Sliding Sensorless Speed Control of PMSM Driving System Using Enhanced Sliding Mode Observer. -- Comparative Evaluation of Memristor-Based 7T2M and 8T3M NVSRAM Architectures. -- An Implementation of Rights Management Mechanism within the e-Healthcare Domain. -- A Real-time Gateway Hydroponic System Design. -- Reducing Energy Losses and Enhancing Efficiency of Inverter Systems in Electric Vehicle Drivetrains.

Sommario/riassunto

This four-volume set constitutes the refereed proceedings of the First International Conference on on Computational Intelligence in Engineering Science, ICCIES 2025, in Ho Chi Minh City, Vietnam, during July 23–25, 2025. The 115 full papers presented in these proceedings were carefully reviewed and selected from 210 submissions. The papers are organized in the following topical sections: Part I: Machine Learning; Wireless Networks (6G) Part II: Computer Vision; Natural Language Processing Part III: Intelligent Systems; Internet of Things Part IV: Machine Learning; Control Systems.