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Autore	Hadjali Allel
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Altri autori (Persone)	MaioranaEmanuele GusikhinOleg SansoneCarlo
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Nota di contenuto	-- End-to-End ASR Model with Iterative Attention Mechanism Enhanced RNN Model for Phoneme Recognition. -- Diagnostic Trouble Codes Prediction with DTC-GOAT and Ensembles. -- A Fast Fourier Transform-Aided Diffusion-Based U-Net Architecture for Microscopic Medical Image Segmentation. -- Non-Cooperative Game Theory-Aided Learning of CNN Models for Skin Lesion Classification. -- LoRA-Based Summarization of Data Privacy Clauses in Terms and Conditions Documents Aligned with India's 2023 Digital Personal Data Protection Act. -- Comparison of AI Speech-to-Text Systems and Their

Application in Artillery Command and Fire Control Systems. -- Rhythm Fusion: Synchronizing Audio and Motion Features for Music-Driven Dance Generation. -- Leveraging Synthetic Data for Deep-Learning-Based Road Crack Segmentation from UAV Imagery. -- Trojan Vulnerabilities in Host-Based Intrusion Detection Systems. -- Identification of Key Feature Interactions via PDP Decomposition. -- Variational Mode Decomposition (VMD) Parameter Selection Using Sine-Cosine Algorithm (SCA): Application on Vibration Signals for Rotating Machinery Monitoring. -- Forecasting Ethereum Prices with Machine Learning, Deep Learning, and Explainable Artificial Intelligence Using Multi-Source Market Articles and Hybrid Sentiment Analysis. -- Application of Neural Networks to Ultrasonic Data for Discrimination of Fat Types in Muscle Tissue Models. -- SwiNight: Class Imbalanced Night-Time Accident Detection with Swin Transformer. -- Enhancing Off-Policy Method SAC with KAN for Continuous Reinforcement Learning. -- Context-Aware Deep Learning for Longitudinal Data Imputation in Parkinson's Disease. -- Investigating Zero-Shot Diagnostic Pathology in Vision-Language Models with Efficient Prompt Design. -- Achieving Zero False Negatives: Optimizing Anomaly Detection with Genetic Neural Architecture Search. -- Whisper-Conformer: A Modified Automatic Speech Recognition for Thai Speech Recognition. -- RevCD: Reversed Conditional Diffusion for Generalized Zero-Shot Learning. -- Toward an Explainable Heatmap-Based Deep Neural Network for Product Defect Classification and Machine Failure Prediction in Industry 4.0. -- Question Answering in a Low-Resource Language: Dataset and Deep Learning Adaptations for Sinhala.

Sommario/riassunto

This book constitutes revised selected papers from the 6th International Conference on Deep Learning Theory and Applications, DeLTA 2025, which took place in Bilbao, Spain, during June 12-13, 2025. The 9 full papers and 13 short papers presented in this volume were carefully reviewed and selected from 42 submissions. The conference is focusing on models and algorithms; machine learning; Big Data analytics; computer vision applications; and natural language understanding. .
