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Nota di contenuto   Biomedical Data Modeling and Mining -- Investigation and Analysis of Corneal Morphology in Young Divers -- EEG Channels Selection Based on BiLSTM and NSGAII -- Self-Guided Local Prototype Network for Few-Shot Medical Image Segmentation -- Staphylococcus aureus function proteins classification with time series forest -- Bradyrhizobium Elkanii's Genes Classification with SVM -- Oral lichen planus classification with SEResNet -- Nucleotide sequence classification of Paeonia lactiflora based on feature representation learning -- Semantic Similarity Functions and Their Applications -- A Multi-Scale Spatiotemporal Capsule Network for Epilepsy Seizure Detection -- Improved ConvNeXt facial expression recognition embedded with Attention Mechanism -- A Domain Adaptation Deep Learning Network for EEG-based Motor Imagery Classification -- T-GraphDTA: a drug-target binding affinity prediction framework based on protein pre-training model and hybrid graph neural network -- Imputation of Compound Property Assay Data Using a Gene Expression Programming-based method -- Identification of Parkinson's Disease Associated Genes through Explicable Deep Learning and Bioinformatic -- Enzyme Turnover Number Prediction Based on Protein 3D Structures -- Computer Vision -- Challenges in Realizing Artificial Intelligence Assisted Sign Language Recognition -- Efficient and Accurate Document Parsing and Verification Based on OCR

Engine -- Intelligent Comparison of Bidding Documents Based on Algorithmic Analysis and Visualization -- Image Denoising Method with Improved Threshold Function -- FasterPlateNet: A Fast Deep Neural Network for License Plate Detection and Recognition -- An improved Seq-DeepFake detection method -- Multimodal Depression Recognition Using Audio and Visual -- Functional Semantics Analysis in Deep Neural Networks -- FDA-PointNet++: A Point Cloud Classification Model Based on Fused Downsampling Strategy and Attention Module -- Collision detection method based on improved whale optimization algorithm -- AF-FCOS: An Improved Anchor-Free Object Detection Method -- Semi-supervised Clustering Algorithm based on L1 Regularization and Extended Pairwise Constraints -- Automated Text Recognition and Review System for Enhanced Bidding Document Analysis -- Machine Vision-based Defect Classification Algorithm for Rolled Packages -- Deep Learning -- The Rise of AI-Powered Writing: How ChatGPT is Revolutionizing Scientific Communication for Better or for Worse -- A Precise Interictal Epileptiform Discharge (IED) Detection Approach Based on Transformer -- Lightweight Traffic Sign Recognition Model Based on Dynamic Feature Extraction -- DeepSensitive: A Fuzzing Test for Deep Neural Networks with Sensitive Neurons -- IGWO-FNN Based Position Control for Stepper Motor -- Lévy Flight Chaotic Runge Kutta Optimizer for Stock Price Forecasting.

| Sommario/riassunto | This 2-volume set CCIS 2014 and CCIS 2015 constitutes the post-conference proceedings of the First International Conference on Applied Intelligence, ICAI 2023, held in Nanning, China, December 8–12, 2023. The 64 full papers presented in this proceedings were carefully selected and reviewed from 228 submissions. The papers cover a wide range on theoretical aspects of biomedical data modeling and mining; computer vision; and deep learning. They were organized in topical sections as follows: Part I: Biomedical data modeling and mining; computer vision; deep learning; Part II: Intelligent control and automation; machine learning; natural language processing and computational linguistics. |