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Altri autori (Persone)	RuizDiego P PvloaiaVasile-Daniel
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Soggetti	Computational intelligence Data mining Neural networks (Computer science) Multimedia systems Computational Intelligence Data Mining and Knowledge Discovery Mathematical Models of Cognitive Processes and Neural Networks Multimedia Information Systems
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Nota di contenuto	Emerging Trends in Alzheimer's Disease Classification: Modalities and Methods -- A Comparative Analysis of Open-Source Large Language Models for the Analysis of Documents -- Exploring Skin Cancer Types and Stages: A Comprehensive Review -- Deep Learning for Short-Term Weather Nowcasting: A Critical Review of Recent Advances -- A Comprehensive Review of Design and Parameters Influencing Low Noise Amplifier -- Hybrid Encryption for Enhanced Data Security: A Synergistic Approach with ECC and AES -- Sustainable Urban Mobility: Reducing Carbon Footprint with Advanced Autonomous Fleet Optimization -- Hybrid Deep Learning Approach for Wildlife Monitoring from Aerial Forestry Images -- A Review of Traffic Congestion Prediction Using Machine Learning -- A Review of Traffic Congestion Prediction Using Machine Learning -- Comparative Analysis of RNN and its Variants for Speaker Recognition -- Leveraging Trusted Platform Modules and OCR for Robust, HITL-Enabled Transportation

Management Systems -- Uncertainty Detection in Sentiment Analysis using Machine Learning Techniques -- Enhancing Rice Leaf Disease Detection Using CMR-Based Augmentation with DenseNet201 -- Unraveling the Complexities: The Patentability of Artificial Neural Networks -- Artificial Intelligence Driven Natural Language Processing Innovations for Enhancing Multimodal Translation and Communication Applications -- Advanced Geant4 Simulation Approach for Evaluating Energy Deposition in Multicellular Boron Neutron Capture Therapy -- Skin lesion segmentation on ISIC Melanoma images by employing Artificial Gorilla Troops Optimizer -- Cutting-Edge Diagnostics: Transfer Learning and U Net-Based Segmentation for Micronutrient Deficiency Identification in Fingernails -- Dermalytics High Performance CNN Models For Skin Cancer Diagnosis -- Real-Time Lane Object Detection Using Clrnet, Scnn And Yolo -- A Survey of ADAS deployment in automobile navigation using deep learning -- Real-Time Sign Language Recognition and Translation Using Enhanced Inception V5 Architecture -- Real-Time Sign Language Recognition and Translation Using Enhanced Inception V5 Architecture -- IOT Based Smart Livestock Monitoring For Rural Communities -- Implementing Vision Transformers for Precision Disease Detection in Spinach Cultivation -- Leveraging Optimized BiLSTM and XGBoost for Early Detection of Alzheimer Disease -- CNN-Based Automated Disaster Damage Assessment Using Satellite Imagery -- VerbaVision Pro - Platform for Document Management -- A Comparative Study of CNN Models for Real-Time Driver Drowsiness Detection -- Flex Talk: Gesture-to-Speech Converter -- AISCliteracy: Assessing AI and Cybersecurity Literacy Levels and Learning Needs of Students -- Optimizing Classification Algorithms with Hybrid Deep Learning Models for Enhanced Disease Prediction -- Hybrid Worm Detection Systems for Enhanced Network Security -- Automated Immune Cell Classification Using Machine Learning -- Enhanced Yolo Based Traffic Monitoring System For Efficient Vehicle Tracking In Urban Environment -- A Comparative Evaluation of AI Tools for Voice Cloning and Lip Syncing in Multimedia Content Creation -- Enhanced Brain Tumor Classification with a Weighted Ensemble of Pre-Trained Models -- Integrated Monitoring, Image Capture, And Real-Time Alerts For Smart Agricultural Wildlife Management.

Sommario/riassunto

This book presents high-quality research papers presented at 5th International Conference on Smart Data Intelligence (ICSMDI 2025) organized by Kongunadu College of Engineering and Technology at Trichy, Tamil Nadu, India, during January 2025. This book brings out the new advances and research results in the fields of algorithmic design, data analysis, and implementation on various real-time applications. It discusses many emerging related fields like big data, data science, artificial intelligence, machine learning, and deep learning which have deployed a paradigm shift in various data-driven approaches that tends to evolve new data-driven research opportunities in various influential domains like social networks, health care, information, and communication applications.
