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Framework for Skin Cancer Detection -- Depth Estimation for Autonomous Vehicles with Enhanced Perception -- Hybridizing CNN with an LSTM Back-End for Univariate Rainfall Forecasting -- Enhancing ECG Abnormality Detection using Image Processing and Transfer Learning Approach -- Enhancing Transformer Efficiency through Active Learning and Knowledge Distillation -- Enhancing Dyslexia Classification using Feature Selection and Ensemble Learning Models on Eye-Tracking Data -- Classification of Arrhythmia Data and QRS Peak Detection for Feature Extraction using SVM Classifiers -- Effects of Environmental and Agronomic Factors on Crop Yield at Different Phenological Stages -- Classification Models for Predicting Accident Severity and the Impact of Factors Contributing to Severity -- A Weighted Deep Learning Approach to Identify Nucleic Acid-Binding Proteins -- Predictive Analytics in Financial Transactions: A Comparative Study for Customer Risk Assessment and Revenue Prediction -- Enhancing Renewable Energy Planning: Machine Learning-based Solar Radiation Prediction -- From Text to Treatment: Predicting Mental Health Needs through Language Analysis and Machine Learning -- A Systematic Review of Deep Learning Techniques for Enhancing Public Safety through Video Surveillance -- Particle Swarm Optimization Algorithm for Quasi-total Roman Domination -- Automatic Detection of Erythrocytes for Sickle Cell Disease Identification Based on YOLOv8n Network -- Exploring the Effectiveness of Collaborative and Content-Based Filtering Techniques in Movie Recommendation Systems with Explainable AI -- Deep Learning-Based Classification of Lung, Kidney, and Breast Cancer Tumor Tissues using Whole Slide Images from the TCGA Database -- Foot Pressure and 3D Skeleton based Multimodal Approach for Pathological Gait Classification -- A Study on Generative Adversarial Network (GAN), Neural Style Transfer (NST) and Autoencoders -- MTL-SDCNN-Based Pre-and Post-Harvest Disease Prediction of Wheat and Paddy Crops -- Mining Association Rules among Biophysical Water Parameters using Improved Frequency Pattern Growth Algorithm -- Deep Learning Approach for Detection and Classification of Alzheimer'S Disease -- Advancements in Voice Pathology Detection: A Comprehensive Bibliometric and Visual Network Analysis -- Railway Track Crack Detection System -- Enhancing Security with a Custom Authenticator App and Comprehensive Zero Trust Architecture -- Super-Resolution of MRI Images using Deep Learning for Enhanced Medical Diagnostics using Altair Rapidminer Studio -- Exloring the Role of ICT Tools for Autism Spectrum Disorder Support: A Survey-Based Study -- Advanced Data Analytics for Organ Donation Tracking using AI and Blockchain -- Adaptive Trust Based Secure Routing Protocol for Wireless Adhoc Network -- Stochastic Particle Swarm Optimization with Bayesian Inference for Hyperparameter Optimization in CNN for Image Classification -- MultiBand Microstrip Patch Antenna for C-Band Applications -- Thoracic Disease Detection and Classification Using Chest X-rays: A Deep Learning Approach with ResNet-50 and DenseNet-121.

| Sommario/riassunto | This book presents high-quality research papers presented at International Conference on Computational Intelligence (ICCI 2024) held at Sardar Vallabhbhai National Institute of Technology, Surat, India, during 24–26 December 2024. The topics covered are artificial intelligence, neural network, deep learning techniques, fuzzy theory and systems, rough sets, self-organizing maps, machine learning, chaotic systems, multi-agent systems, computational optimization ensemble classifiers, reinforcement learning, decision trees, support vector machines, hybrid learning, statistical learning, metaheuristics algorithms, machine vision, Internet of Things, image processing, |

image segmentation, data clustering, sentiment analysis, big data, computer networks, signal processing, supply chain management, web and text mining, distributed systems, bioinformatics, embedded systems, expert system, forecasting, pattern recognition, planning and scheduling, time series analysis, human-computer interaction, web mining, natural language processing, multimedia systems, and quantum computing.