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Autore	WEIL, Simone
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Diagnosis -- Chapter 36:ResNet50 Outperforms VGG16 and VGG19 in Tomato Leaf Disease Classification -- Chapter 37:A Robust Framework for Internet of Things Harmonization in Critical Infrastructure -- Chapter 38:Vehicular Assistance Communication System for Road Blockage Using Multi-Hop V2X Architecture in Hilly Terrain -- Chapter 39:Occluded Face Image Inpainting using Generative Adversarial Networks -- Chapter 40:Vehicle Identification System Using Convolutional Neural Networks -- Chapter 41:A Review on Detection of Distributed Denial of Service Attacks Using Machine Learning Techniques -- Chapter 42:Analysis of EEG Signal for AAD Classification Using Deep Learning Approach -- Chapter 43:Federated Learning in Healthcare: Benchmarking In-sights for Diabetes Treatment -- Chapter 44:Deep Learning for Dermoscopic Diagnosis: High-Accuracy CNN in Skin Cancer Classification -- Chapter 45:Securing the Vote: Exploring the Potential of Blockchain-Based e-Voting System -- Chapter 46: Hybrid AI approach for melanoma diagnosis detection with image segmentation using mobile net and deep CNN algorithms -- Chapter 47:Machine Learning-Driven Design Enhancement of Microstrip Patch Antennas for Wireless Communication -- Chapter 48:Predictive Models of Compressive Strength of Concrete Containing Construction and Demolition Waste Using Artificial Neural Networks -- Chapter 49: Hybrid Bat Algorithm for Clustering -- Chapter 50:Designing IOT based Real Time Visual Paddy Leaf Pest Detection and Feature Extraction Algorithm -- Chapter 51:Optimizing Convolutional Neural Network for Accurate Digit Recognition -- Chapter 52:Enhancing Sentiment Analysis in Natural Language Processing: A Hybrid Approach of Machine Learning and Deep Learning Model for Emotion Classification -- Chapter 53:Satellite-Based Environmental Monitoring for Sustainable Well-being -- Chapter 54:ANALYSIS AND CHARACTERIZATION OF MULTI-EYE DISEASES USING DEEP LEARNING ALGORITHMS -- Chapter 55:Design and Development of Diverse Patch Antennas for 5G Wireless Networks Utilizing Various Materials -- Chapter 56:Optimized Deep Learning Approach for Accurate Poultry Disease Detection -- Chapter 57:Optimizing Stock Market Investment Decisions: A Comparative Analysis of Machine Learning and Deep Learning Algorithms -- Chapter 58:A Comprehensive study on Energy consumption analysis using Monte-Carlo simulation and Machine Learning -- Chapter 59: COMPUTATIONAL COGNITIVE ACTIVATION FUNCTION USING fMRI APPLICATION -- Chapter 60:Behavior Analysis In crowds -- Chapter 61: Integrating Data Science Methodologies in Crop Prediction to Reinforce Sustainable Agriculture -- Chapter 62:Detection and Mitigation of Wireless Network Attacks Using Artificial Intelligence.

Sommario/riassunto

This book gathers selected high-quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies (ICACIT 2024), which is jointly organized by Università degli Studi di Siena, Italy and ADSRS Education and Research during December 13 – 14, 2024. It discusses emerging topics pertaining to advanced computing, intelligent technologies and networks including AI and machine learning, data mining, big data analytics, high-performance computing network performance analysis, Internet of things networks, wireless sensor networks, and others. The book offers an asset for researchers from both academia and industries involved in advanced studies.