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Nota di contenuto	Chapter 1 :DYNAMIC CURRENT REGULATION IN A BI-DIRECTIONAL INTERLEAVED EV CHARGING SYSTEM WITH DISTURBANCE ATTENUATION -- Chapter 2 :Generic and Simplified mechanism for mutual authentication of nodes in a wireless sensor network -- Chapter 3 :An Insight into Multi-label Learning -- Chapter 4 :An Approximation Edit Distance (AED) Algorithm for Recognition of Partially Occluded Faces -- Chapter 5 :Browser in the Middle Attack: Attack Stimulation and Prevention Method -- Chapter 6 :Conformal Prediction Intervals in Machine Learning for Housing Prices and Birth Weight Predictions -- Chapter 7 :Comparative Study of Automotive ECU with AMBA, Wishbone, and IBM Bus Architectures -- Chapter 8 :MobileNet-Based Deep Learning for Accurate Potato Leaf Disease Detection -- Chapter 9 :Decoding confidence through machine learning on video features -- Chapter 10 :Optimizing TCP Performance and QOS in Mobile Wireless Communications through Prioritized Hard Handoff (PH2) -- Chapter 11

:Online Cheat Detection Using Multimodal Machine Learning Techniques -- Chapter 12 :Alzheimer's Disease Progression for PET Data with Incomplete Clinical Scores using Deep Learning -- Chapter 13 :Improved Anisotropic Scaling Convergence in the Manifold Embedding Quality Assessment Method -- Chapter 14 :Analysing of MTC Data Traffic Over TCP in 5G Wireless Networks -- Chapter 15 : LightGCN-Based Contrastive Cross-Domain Sequential Recommender System -- Chapter 16 :AloVTA: Vehicular Things for In-Cabin Air Quality Monitoring and Maintenance for the Wellness of the Occupants -- Chapter 17 :Active Learning using Divergence-Based Sampling in Ensemble Framework of Convolutional Neural Networks -- Chapter 18 : Diagnosis of Faults in Synchronous Generator Using Intelligent Technique -- Chapter 19 :Single-Phase Seven-Level Inverter for Enhanced Photovoltaic Energy Integration -- Chapter 20: Systematic Review & Performance Analysis of Classification algorithm for Detecting Fake News with Machine Learning -- Chapter 21: Adoption of Intelligent Decision Support System amongst Small and Medium Enterprises in Mauritius -- Chapter 22 :Adopting 3-2-1 rule for data protection at Universite des Mascareignes -- Chapter 23: EARLY DETECTION OF RED PALM WEEVIL ON COCONUT TREES USING DEEP LEARNING -- Chapter 24: A Computer Vision Approach to Monitor and Prevent Deforestation within the Amazon Rainforest -- Chapter 25 :Optimizing Convolutional Neural Networks with Nature Inspired Algorithms for Diabetic Retinopathy Classification -- Chapter 26 :7 Salp Swarm Algorithm using Lens Opposition 1 based Learning and Local Search Algorithm -- Chapter 27: Cyber Vigilance Nexus: Advancing Intrusion Detection Network Accuracy through Deep Learning Optimization -- Chapter 28: TPE-ASPEC: Secure Thumbnail-Preserving Cryptosystem for Cloud-Based Medical Data Using an Advanced SPE and Chaotic Maps -- Chapter 29 :Novel Hybrid Neural Network Architectures for Stress Detection -- Chapter 30: FogCog: Cognitive Computing Based Fog Architecture for Smart Health Care -- Chapter 31: AI-Driven Stress Detection: Exploring Deep Learning Techniques for Real-Time Analysis" -- Chapter 32 :Next-Generation Firewalls and AI-Based Next-Generation Firewalls and AI-Based Detection Systems for DDoS Mitigation.

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### Sommario/riassunto

This book presents high-quality, peer-reviewed papers from International Conference on Advanced Communications and Machine Intelligence (MICA 2024), hosted by Mahindra University, Hyderabad, Telangana, India, during 18–19 October 2024. The book includes all areas of advanced communications and machine intelligence. The book is useful for academicians, scientists, researchers from industry, research scholars, and students working in these areas.

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