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-- Defense Strategy Security Mechanism for Sensor Network -- An Efficient approach for Food Demand Forecasting using an Ensemble Technique and Statistical Analysis -- Identification of Different Medicinal Plants Using Machine Learning and Image Processing -- Leveraging the Power of MRMR in Machine Learning Models for Multi Class Classification of Rice to Promote Sustainable and Efficient Smart Farming -- Performance Analysis of Word Recognition System Using Tensor Flow -- A Distinct Artificial Feed Forward Neural Network (AF2NN) Model for Predicting Compressive Strength of Geo Polymer Concrete -- Performance Assessment of Deep learning-models for Kidney Tumor Segmentation using CT Images -- Investigation of Quantum Machine Learning for Smart Eco System Focusing on Energy Optimization -- Classification Of Skin Cancer using CNN with Transformer Layer -- A Unified Approach to Smart Coconut Farming with IoT and Deep Learning for recommendation of Pesticides and Fertilizers -- Classifying The Severity of Diabetic Retinopathy using Deep Learning -- Exploring Prominent Convolutional Neural Network Frameworks to Identify COVID 19 deceases by Using Medical Images -- Non-Invasive Technique for Detecting Glycosuria Through Image Processing and Deep Learning Approaches -- Deep Learning Strategies for Multiclass Skin Disease Classification -- AI driven Glaucoma Susceptibility Assessment and Lifestyle Guidance -- Deep Learning in Cartoon Moderation Distinguishing Child Friendly Content with CNN Architectures -- Comparative Analysis of Mice Protein Expression Data Assessing Genotype and Behavioral Treatments Using Machine Learning Algorithms -- An Efficient Sentiment Classification Model using Fusion of BERT and Deep Learning RNN Variants -- InnovativeTunes Utilizing Machine Learning for Predicting Spotify Music Popularity Based on Audio Features -- AquaMap Empowering Communities to Report and Map Water Related Issues in Real Time with Deep Learning -- A Comprehensive Analysis of Machine Learning and Deep Learning based Product Recommendation System -- Deep Learning based hazard evaluation for resource network setting up via Horizontal Directional Drilling -- Ensemble Fusion for Enhanced Malicious URL Detection by Integrating Machine Learning and Deep Learning Techniques -- Assessment of the Decay of Monuments Using Deep Learning and CNN -- RF and Microwave Technology -- A Wideband Metamaterial Perfect Absorber for Terahertz Applications -- Defective Ground Structure Based Dual Port MIMO Antenna Configuration for Future Generation Communication Networks -- Miniatured Triple band Two Element Monopole MIMO Antenna for 5G N38, N77 and N79 Band Communications -- Comparative Analysis of RL based Resource Allocation Methods for Optimization in 5G MMWave Network -- Design and Modeling of Frequency Reconfigurable Microstrip Patch by Using Bow Tie Geometry -- Exploring 6G Wireless Networks Millimeter Wave Revolution and Mixed Carrier Communication for Enhanced Spectrum Efficiency -- Short Range Visible Light communication LED based Indoor Applications.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th EAI International Conference on Cognitive Computing and Cyber Physical Systems, IC4S 2024, held in Bhimavaram, India, during April 5-7, 2024. The 102 full papers presented were carefully reviewed and selected from 266 submissions. The proceedings focus on Cyber-physical systems, cognitive computing, Internet of Things, Smart grid, Security and trust management of CPS, Industrial IoT, Autonomous systems, Intelligent Transportation, Human-Machine Interaction, Distributed robotics, Sensor-based communication.