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Nota di contenuto	Design of Compact Dual-Band Antenna with Single-Layered AMC for Wearable Devices -- Virtual Health Assistance using Medical Computer Vision -- Treatment of Mood Swings Using AI -- Advancing Lung Cancer Detection with YOLO NAS: A Novel Approach for Enhanced Diagnostic Accuracy -- Optimized Grid Integration of Solar PV and EVs: A Dynamic State-based Energy Management Strategy -- Multiple Intrusion Detection in Complex Cloud Environments Using Random Forest and Deep Learning on the UNSW-NB15 Benchmark Datasets -- Real Time Power Estimation and Monitoring of an IoT Node Using MQTT

-- Exploring MIMO-NOMA: Enhancing Multi-User Communication with Power Allocation -- A Framework Utilizing Deep Learning for Detecting Multiple Cancers in Medical Imaging -- Revolutionizing Medical Applications: IOT-based IVF Monitoring -- AI Virtual Mouse: Revolutionizing Human Computer Interaction -- A Wideband Monolayered Graphene-Based Microstrip Patch Antenna for THz-Frequency Applications -- A Monolayered Graphene-Based Microstrip Patch Antenna for Optimal Performance in the Mid-THz Band -- Kinematic Analysis and Modeling of the Gait by Parametrization of the Body Trajectories of 18 Degree of Freedom Hexapod Robots using Reinforcement Learning -- Modernized Ration Distribution System with Integrated Mobile Accessibility -- Multiple Device-Based Geo-Position Spoofing Detection in Instant Messaging Platform with Residual Noise Extraction using DRN -- Compact Circular Patch Grid Array Antenna for Medical Imaging Applications -- Driver Drowsiness Detection System: An Integrated Vision-Based Approach -- Development of Bit synchronizer for Remote Sensing Satellite Data -- Design And Optimization of Compact Wideband Yagi-Uda Antenna for V2V Communication -- Advancing Object Discovery: Unveiling the Power of YOLO in Computer Vision Applications -- Ambulance Precedence Integrated Traffic Management System -- Performance Analysis of Crossbar in NOC through Booksim Simulator -- A Table Lamp Shaped Compact Tri-Band Antenna for Various Wireless Technologies -- Optimizing Agricultural Health: Early Detection and Classification of Crop Diseases through Hyperspectral Imaging and Convolutional Neural Networks -- A comprehensive Analysis of ABE Access Control Mechanisms in Cloud Environment -- Stock Forecasting Using LSTM Neural Networks -- Feature Extraction and Machine Learning in Plant Disease Detection: A Survey -- Emerging Paradigms in Intelligent Query-Dependent Video Summarization: A Comprehensive Review -- Design of a 402-405 MHz Implantable Monopole Antenna at Medical Implant Communication Band for Bio-Telemetry Applications -- Real time Health Monitoring System by integrating Augmented Reality and Internet of Things -- Automatic Facial Makeup Detection for Device Security Using Machine Learning -- Early Disease Prediction in Women using Artificial Intelligence -- A Security Model for the Enhancement of Mobile Security -- Analysis of YOLO v5 for detection of multiple defects in PCB -- Structural enhancements and challenges from FINFET to 2D material based GAANSFET: A Review -- A Review of Deep Learning Techniques for Early Detection and Categorization of Lung Cancer -- Design and Analysis of Compact UWB Circular Ring Planar Antenna for mmWave FR-II NR Bands n259, n262, n263 (V-Band) and n260 (Ka-Band) for 5G Applications -- Handwritten Character Recognition with Convolution Neural Network -- Design and Analysis of a Compact Microstrip Antenna for WBAN Applications -- A Comprehensive Survey of Methods for Identifying Counterfeit Banknotes using Image Processing and Machine Learning -- Soil Moisture Prediction Analysis for Intelligent and Efficiency Control -- AI-Enabled Program Management System for BTFEC -- A Review of Image segmentation with Language Models for visual impairments -- Leveraging Blockchain Technology for Secure and Efficient Smart City Applications -- Research on AI Driven Advanced Solution for Plant Leaf Disease Detection -- Aperture Coupled Feed Patch Antenna For 5G Application -- Simulation Based Analysis of Ultra-Wideband, High Efficiency Monopole Antenna High Efficiency Monopole Antenna Using Frequency Selective Surfaces as a Reflector for Sub 6 GHz Band Applications -- NLP Comparative Analysis of Different Models for Sarcastic and Non-Sarcastic Text Detection -- Design of a Wideband Metamaterial Inspired Microwave

Absorber Implementing Anti-Symmetric Geometries -- Transfer Learning-Based Fault Classification Methods for Solar Photovoltaic Modules -- A Circular Patch Wideband Antenna Design for IoT Applications in New Radio Bands: Enhancing Connectivity and Versatility -- Performance Analysis of Machine Learning Algorithms for Optimize Rainfall Prediction -- Soft Computing and Machine Learning application on Water Quality Prognostication -- Computer-Vision based Weed Killing Rover -- Transfer Learning for Enhancing Computer Vision -- Sign Language Transformation: AI-Enabled Communication for the Deaf -- Integrated Agricultural Decision Support System Leveraging Random Forest for Crop Prediction and Efficient Net B0 for Disease Prediction -- Person Re-Identification with CNN ResNet Spatial Temporal Stream -- Area and Power Estimation of Comparator Block for FPGAs -- Utilizing Convolutional Neural Networks for the Detection of Early-Stage Leaf Diseases in Potato Crops -- Literature Survey on Chatbot: Tools and Techniques -- Genetic Algorithm Optimization based PID Tuning for Basis Weight Control for Spatial Distributed System -- Smart Transportation Using Internet of Things (IoT) -- Study of Different Types of Controllers on the Boost Converter -- Challenges and solutions towards Classification of Brain Tumour in MRI Images Implementing Capsule Network Model: A Short Review -- 3D printed solar cell: A short review -- Intelligent Hand Gesture Recognition using a Multichannel Surface Electromyography -- Frequency Coded Waveforms for Closely Spaced Target Detection -- IoT based wireless electric vehicle charging station -- Solar and Wind Based Charging System for Electric Vehicles.

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#### Sommario/riassunto

This book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 6th International Conference on Intelligent Communication, Control and Devices (ICICCD 2024), organized by the Department of Electrical & Electronics Engineering, School of Advanced Engineering, at UPES, Dehradun, India, during May 30–31, 2024. The topics covered are a range of recent advances in intelligent communication, intelligent control, intelligent devices, and sustainable technologies.

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