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Autore	Srinivasan Kanthalakshmi
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Enhancement Using Computer Vision and Embedded for Effective Drowsiness Detection. -- Finding Minimum Dominating Set Using Python Program in Certain Graphs. -- EfficientNet for Enhanced Detection of Medicinal Plants: A Deep Learning Approach. -- Real-time Monitoring Of Smart Photovoltaic System With Hybrid Inverter. Smart System. -- Mapping Hybrid Traffic Shaper Architecture To FPGA Design For TSN Applications. -- Design Of Low Power, Low Leakage Static Random Access Memory In FINFET Technology For Biomedical Circuits. -- Crop Disease Detection Using Generative Adversarial Networks. -- Hybrid Deep Learning Technique for Detecting Cardiovascular Diseases. -- Design And Development Of Sludge Removal In Boiler Using IOT For Dyeing Industries. -- Design And Feasibility Analysis Of Silicon And Silicon Carbide Based Non-Isolated High Gain DC-DC Converter. -- RF-Controlled Weeding Rover. -- Emotion Recognition from EEG Signals: A Machine Learning Perspective using DEAP dataset. -- Adaptive Dark Channel Prior Based Image Enhancement For Weather Degraded Images. -- Optimization Status Sensing and failure detection in MPC and Virtual Feedback MPC Applied to a Tank System. -- AI-powered Adaptive Steganography. -- Multimodal Driver Assistive System. -- Innovative Light Beam-Based Wireless EV Charging with PV Panel Digital Twin Optimization. -- Intelligent Energy Management for EV Charging Stations: Integrating Renewable Energy and Energy Storage System. -- Analysis of Path Planning Algorithms for Swarm Robots. -- Low Light Image Enhancement Using Retinex Algorithm for Improved Visibility. -- Fault Diagnosis In Three-phase Voltage Source Inverter Using Machine Learning Techniques. -- Automatic Image Captioning with Speed Synthesis. -- Convolutional Neural Network-Based Method for Identifying Floods in Urban Environments. -- Enhancing Sustainability in Industrial Workspaces: A Smart Approach to CO2 Reduction and Environmental Footprint.

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#### Sommario/riassunto

This book constitutes the proceedings of the 1st International Conference on Smart System for Integrated Computing and Communication, ICSSICC 2024, held in Coimbatore, India, in November 15–16, 2024. The 29 full papers and 6 Short papers were included in this book were carefully reviewed and selected from 130 submissions. They focus on integrated computing driven healthcare, energy systems, sensor integration, data analytics.

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