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| Nota di contenuto | Defect Detection in Metal Surfaces using Computer Vision -- Liver Cirrhosis Prediction using Machine Learning Classification Techniques -- A Recent Survey on Risk Factors Affecting the Blood Pressure in India -- Rock Segmentation of Real Martian Scenes using Dual Attention Mechanism-Based U-Net -- An Efficient approach of True Random Number Generation using A Data encryption method in Security & cryptography algorithm -- Background Subtraction for Detecting Moving Objects and Implementing On FPGA Board -- Crime Pattern Identification and Prediction using Machine Learning -- Rash Driving Detection And Alerting System -- Logistic based OVA-CNN Model for Alzheimer's Disease Detection and Prediction using MR Images -- 3D Avatar Reconstruction using Multi-Level Pixel-Aligned Implicit Function -- Text-to-Image Generation Model with DNN Architecture and Computer Vision for Embedded Devices using Quantization Technique |

-- One Shot Learning for Archaeological Site Data Using Deep Neural Network on Embedded Systems -- Indian Music Instrument Classification using Deep Learning on Embedded Platforms -- Innovative Design of a Solar-Powered Wireless Soil Moisture Sensor for Maximizing the Efficiency of IoT based Systems -- Image Inpainting on Archeological Dataset using UNet Architecture on Embedded Platform -- A Deep Learning Model-Based Approach for Brain Tumor Detection in Low Brightness and Low Contrast MRI -- Implementation of IoT and Data analytics in smart agricultural system -- Implementing Service-Oriented game-theoretic Security Scheme for IoV Networks in Self-Driving Cars -- Framework for 2D MRI Brain Tumour Segmentation Employing Znet-Based Deep Learning -- Multiple-Emotion Recognition in Gujarati Language using Natural Language Processing -- Automation of Mechanical Ventilation for Optimal Pressure Predictions using Machine Learning -- Rhythm Net: A Novel Convolution Neural Network for Multi-Class ECG Classification -- Designing of GUI based Home Automation System using Arduino and MATLAB -- Recent Trends of Information Retrieval System: Review based on IR models and applications -- Capsule Network Approach for Image Classification -- Empowering Fast-Moving Consumer Goods Supply Chain Leveraging Blockchain -- DeEffNet: A CNN model for optimizing the Image Classification of Comorbid Patients -- A Comparative Study of Approaches to Short Text Document Clustering -- Secure Image Retrieval in an Untrusted Cloud Environment -- Automated Pest Detection using Image Classification.

Sommario/riassunto

The book is a collection of the best-selected research papers presented at the International Conference on Recent Trends in Machine Learning, IoT, Smart Cities, and Applications (ICMISC 2023) held in September 2023 at the CMR Institute of Technology, Hyderabad, Telangana, India. This book will contain articles on current trends in machine learning, the internet of things, and smart city applications, emphasizing multi-disciplinary research in the area of artificial intelligence and cyberphysical systems. The book is a great resource for scientists, research scholars, and PG students to formulate their research ideas and find future directions in these areas. Further, this book serves as a reference work to understand the latest technologies used by practice engineers across the globe.