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Nota di contenuto	Preface -- Similarity Analysis of Protein Sequences with a New 3-D Graphical Representation Technique -- Enhanced Security and Robustness of Data Using Steganography -- A TTIG Based Deep

Convolution Combined GAN and CLS for Text to Image Synthesis -- Smart Agricultural Greenhouse System: A Context-aware Application -- Improving Performance of Plant Disease Detection using YOLOv7 and YOLOv8 -- Detection of Congenital Heart Disease from Heart Sounds using 2DCNN-BiLSTM with Attention Mechanism -- Automated Reviewer Assignment Process using Machine Learning Technique -- A Method for Detecting Retinal Micro aneurysms in the Fundus Using CR-SF And RG-TF -- Pilot Super Resolution Network (PSRN) based Mango fruit Classification -- Performance Evaluation of Quality of Service (QoS) in Modified Ad hoc On-Demand Distance Vector (MAODV) Routing Protocol in Manets -- Minimize the Energy Consumption to Increase the Network Lifetime for Green IoT Environment -- Unveiling Hate Speech: Identifying Toxic Comments Targeting Women in Online Social Media Posts -- Identification of retinal fundus in diabetic patients using deep learning algorithms -- Smart Health Prediction Using Random Forest -- Vulnerability Assessment and Penetration Testing Using Parrot Operating System -- Assessing NSAID Threat Degree of Unfavorable Medical Reactions Using Machine Learning -- Searchable Encryption for Privacy Preserving with Fine Grained Access Control -- Classification for Disease Gene Association -- Machine Learning-Based Air Pollution Monitoring And Forecasting -- A Novel parasitic mushroom-like structure with high gain microstrip patch antenna for broadband applications -- Facial Emotion Recognition using Artificial Intelligence -- A Hybrid Machine Intelligence Demographic Feature Selection Approach to Improve Recommendation System in Social Domain -- An Exploratory Review of Machine Learning and Deep Learning Applications in Healthcare Management -- Bone Fracture Prediction using Machine Learning and Deep Learning Techniques -- Plant Disease Detection Using Modern Deep Learning Approach: YOLOv7 -- Analysis of the life insurance business performance based on COVID by using machine learning algorithms -- An Ensemble Model of Skin Disease Detection Using CNN and Transfer Learning -- Session Based News Recommendation System -- A Fusion-based Approach for Generating Image Captions -- Comparison of Machine Learning Algorithms for Detection of Stuttering in Speech -- The Evolutionary Impact of Pattern Recognition in Research Applications – A Wide Spectrum Survey -- Prediction of GATE Examination Clearance for Fresh Graduate Candidates: An Advanced Machine Learning Approach -- Foreseeing Worker Attrition Using Machine Learning -- Mouse Controlling Using Eyeball Action -- Power Quality Improvement by Using Shunt Hybrid Active Power Filter -- Integration of Renewable Energy Systems into utility grid: A review on Power Quality Issues, Mitigating devices and Control Algorithms -- Traffic Control System for Congestion Control and Ambulance Clearance -- QR Based Authentication for Login and Payment -- Smart Irrigation Watering System Using IoT -- IoT Based Transmission Line Multiple Fault Detection and Indication to Electricity Board -- Design Of Off Board Electric Vehicle Charger Using PV Array Through Matlab-Simulink -- Human stress detection in sleep mode compared with non-sleep mode using machine learning algorithms -- Medical Diagnosis Prediction using Deep Learning -- Detecting Hard Landing of Flights: E-Pilots -- Detection of Glaucoma Using MobileNet, XAI and IML -- Attainment Expedients of Markovian Heterogeneous Water Heaters in Queueing Models by Matrix Geometry Method -- Identification Of Medicinal Plants Using Inception V3 Model -- Smart Gardening Using Internet of Things -- Predictive Analytics of Blood Donor Risk Assessment Using Machine Learning Methods -- Risk Analysis of Covid-19 Patients Mortality Rate in Emergency Ward -- Machine Learning Classification

Analysis on Leaf Disease Data -- Conversion of Type-2 Intuitionistic Fuzzy Sets into Interval-valued Intuitionistic Fuzzy Sets and its implementation in Decision Making -- A Framework for Secure Database and Similarity Comparison in Android -- A Comprehensive review and a Conceptual framework for predicting the position of the mobile sinks in Wireless sensor networks -- Brain Computer Interface for Multiple Applications Control -- Predicting Student Academic Performance using Machine Learning: A Comparison of Classification Algorithms -- A Novel Approach in Machine Learning for Solar Energy Prediction System -- Real-time Tomato Leaf Disease Detection and Diagnosis using Deep Learning-based Computer Vision Techniques -- Index.

Sommario/riassunto

This edited volume on machine learning and big data analytics (Proceedings of ICMLBDA 2023, that was held on May 29-30, 2023 by NERIST and NIT Arunachal Pradesh India) is intended to be used as a reference book for researchers and professionals to share their research and reports of new technologies and applications in Machine Learning and Big Data Analytics like biometric Recognition Systems, medical diagnosis, industries, telecommunications, AI Petri Nets Model-Based Diagnosis, gaming, stock trading, Intelligent Aerospace Systems, robot control, law, remote sensing and scientific discovery agents and multiagent systems; and natural language and Web intelligence. The intent of this book is to provide awareness of algorithms used for machine learning and big data in the advanced Scientific Technologies, provide a correlation of multidisciplinary areas and become a point of great interest for Data Scientists, systems architects, developers, new researchers and graduate level students. This volume provides cutting-edge research from around the globe on this field. Current status, trends, future directions, opportunities, etc. are discussed, making it friendly for beginners and young researchers.