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Nota di contenuto	ISLO-Tuned InceptionResNetV2 and 3D U-Net: A Powerful Duo for Automated Renal Cancer Diagnosis -- Entropy Enhanced Bilateral Filter for Denoising Medical Images with Variable Region of Interest -- Diagnosis of Pneumonia from Chest X-Ray Images using Federated Learning -- Product Recommendation Systems: The Digital Transformation to E-commerce -- A Deep Learning-Based Approach for classification of Emotions using Intelligent Facial Expression Recognition -- Performance -- Analysis of Social Media based Large Large-scale Dataset using Machine Learning Clustering Algorithm -- Severity Detection of Fall Armyworm Disease in Sorghum using Deep Learning -- A Case Study on Avicennia Community for Assessing Structural Variation Assessment through Scale Profiling using Laplacian

of Gaussian Filter -- Digital Filter Designing: Minimum-order IIR Filter Design with MATLAB -- A Comparative Analysis of Machine Learning Models for Early Detection of Cardiovascular Disease -- Dementia Prediction using Hybrid Capsnet-DNN on OASIS MRI Dataset -- Robust Control of Magnetic Levitation System using Nature-inspired Algorithm based FOPID Controller -- Recognizing Mangrove Dynamics for Assessing Cyclone Impact on Henry Island using Sentinel Data -- Bi-Modal Classification For Emotion Intelligence using Peripheral Signals.

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**Sommario/riassunto**

This book gathers outstanding papers presented at the 5th International Conference on Data Science and Applications (ICDSA 2024), organized by Soft Computing Research Society (SCRS) and Malaviya National Institute of Technology Jaipur, India, from 17 to 19 July 2024. The book is divided into four volumes, and it covers theoretical and empirical developments in various areas of big data analytics, big data technologies, decision tree learning, wireless communication, wireless sensor networking, bioinformatics and systems, artificial neural networks, deep learning, genetic algorithms, data mining, fuzzy logic, optimization algorithms, image processing, computational intelligence in civil engineering, and creative computing.

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