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Nota di contenuto	SMOTE-Enhanced Machine Learning Techniques for Credit Card Fraud Detection -- Comparative Study of Clustering Algorithms for Customer Segmentation -- Persistence and Fixed Autoregression Models for Time-Series Prediction of Net Asset Value (NAV) of Savings Fund -- Emoji-RoBERTa: A Contextual Emoji Representation for Hate Speech Detection -- Software Bugs Classification using SVM, RF, DT Algorithms -- Ascend.AI - Building Confidence Through Technology: A Technical Exploration of Facial Expression, Tone and Pitch Analysis with Chatbot Guidance -- Transformer Generative AI Model for Enhanced Molecular Property Prediction -- Compaction and Restoration of the S-transform based on N-fold Redundancy -- Deep Learning-based Electric Vehicle Charging Load Prediction: A Comparative Study -- A Comparative Analysis of Quantum Programming Bug Detection Tools -- DWMS-HGR: 1D CNN for Hand Gesture Recognition on Normalized sEMG Signals with Sliding Window -- Secured File-Sharing: Hybrid Encryption and

Network Theory for Enhanced Privacy -- Kernel Density Estimation based Clustering for Visual Walking Stick Detection in Human-Robot Coexisting Environments -- Optimizing Battery Efficiency: Design and Implementation of a Fuzzy Logic based Controller for Hybrid Energy Storage System in Electric Vehicles.

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.