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Nota di contenuto	Chapter 1. Uncovering Business Accounts among Retail Shoppers: Insights from Supermarket Transactions Using an Intelligent Decision Support System -- Chapter 2. Beyond the Scent: A Holistic NLP Study of the Fragrance World -- Chapter 3. Forecasting Market Clearing Prices in Electricity Markets with Time Series Based Machine Learning Models -- Chapter 4. Hepatitis C Diagnosis Using Computational Intelligence Techniques -- Chapter 5. Navigating the Technological Frontier: Machine Learning Infused with Fuzzy Logic for Control System Advancements -- Chapter 6. Exploring the Intersection of Fuzzy Logic and Machine Learning: Applications and Advancements -- Chapter 7. Effective Feature Extraction and Classification Method for Backlash

Anomaly in Missiles via Machine Learning -- Chapter 8. Estimation of Kolmogorov-Chaitin Complexity on Continuous Biomedical Data for Machine Learning Purposes -- Chapter 9. Intelligent Pricing with Clarity: Interpretable AI for Customer-Centric Time Deposit Interest Rates -- Chapter 10. A Machine Learning System that Detects Abnormal Level of Inventory -- Chapter 11. Machine Learning-based Demand Forecasting for an FMCG Retailer -- Chapter 12. Improving Heart Disease Diagnosis: An Ensemble Machine Learning Approach -- Chapter 13. Application of Supervised Machine Learning Models with Inter Simple Sequence Repeat Markers for Prediction of Grass Speci -- Chapter 14. HR Analytics in Retail: Predicting Employee Churn with Machine Learning -- Chapter 15. Machine Learning and Ensemble Learning Techniques for Intrusion Detection Systems: A Performance Analysis based on Feature Selection Methods -- Chapter 16. Development of Digital Twin for Reciprocating Compressor using Machine Learning methodic -- Chapter 17. Clinical Case Report Generation using Machine Learning based on two PICO Transformer Approaches -- Chapter 18. A Novel Framework of Smart Security System based on Machine Learning Techniques -- Chapter 19. Implementing a Smart Low-Cost System for Diagnosing Bacteria in Women.-Chapter 20. Application of Tree-Based Intelligence Methods for Wind Speed Estimation at the East of Lake Urmia -- Etc...

Sommario/riassunto

This book presents recent research in intelligent and fuzzy techniques on Intelligent Industrial Informatics and Efficient Networks. This cutting-edge field integrates advanced technologies, such as artificial intelligence, machine learning and data analytics, into industrial processes, revolutionizing the way industries operate. The book presents the examples of the implementation of smart sensors and IoT devices, which facilitate real-time data collection and communication. High-speed, low-latency networks ensure that information flows effortlessly between devices, enabling timely responses and enabling the coordination of complex manufacturing processes. This network architecture supports the integration of edge computing, where data processing occurs closer to the source, reducing latency and enabling faster decision-making. The readers can benefit from this book for maintaining a leadership position among competitors in both manufacturing and service companies. The intended readers are intelligent and fuzzy systems researchers, lecturers, M.Sc. and Ph.D. students studying intelligent and fuzzy techniques. The book covers fuzzy logic theory and applications, heuristics and metaheuristics from optimization to machine learning, from quality management to risk management, making the book an excellent source for researchers.
