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Nota di contenuto	Section 1: Foundations of AI and Machine Learning -- Analyzing the Performance of Classification Models and Sampling Techniques on Imbalanced Datasets -- TextPrep: Automating the Process of Text Data Pre-Processing by Leveraging Self-Supervised Learning -- Advancing Transfer Learning with GAP, Depth Constraints, and Average Depth Constraints for Diverse Datasets -- Knparaphraser: A Kannada Paraphrasing Model Based on Novel Data Augmentation Framework -- Section 2: AI for Health and Biomedical Research -- Accelerating DNA Sequence Alignment Using Optimized AI Techniques -- Drug Discovery for Mycobacterium Tuberculosis: A Synergistic Approach using QSAR and Machine Learning -- Analysis of Parkinson's Disease Detection using Machine Learning Algorithms -- Designing a Malaria Detection Scheme Using Convolutional Neural Network (CNN) and TensorFlow-Based Deep Learning Model -- A Machine Learning Approach for Anomaly Detection in COVID-19 PCR Test Results Using Isolation Forests -- Optimizing ICU Patient Management through Predictive Analysis -- Exploring Deep Learning Approaches for Sleep Apnea

Detection -- etc.

Sommario/riassunto

This volume comprises selected peer-reviewed proceedings of the 12th International Conference on Signal Processing and Integrated Networks (SPIN 2025). It aims to provide a comprehensive and broad-spectrum picture of state-of-the-art research and development in signal processing, IoT sensors, systems and technologies, cloud computing, wireless communication, and wireless sensor networks. This volume will provide a valuable resource for those in academia and industry.
