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Nota di contenuto	-- Artificial Intelligence. -- Artificial intelligence Toward Streamlining Lean Manufacturing Approaches. -- Road Roughness and ranking using Deep learning. -- Unveiling the Future of Drug Discovery: Revolutionizing Log S Prediction with Deep Learning FNNs. -- Segment anything model for breast imaging segmentation: a state-of-the-art. -- Profitability Prediction of Stock exchange Symbols: An Integrated Data Mining Approach. -- Comparative Analysis of Cutaneous Leishmaniasis Future Forecasting Using Supervised Machine Learning Models. -- Deep learning time series forecasting using LST MODIS data: hyperparameter optimization. -- SentinelBERT: A Deep Learning Approach for Adverse Event Forecasting. -- Enhancing Outlier Detection: A Hybrid Architecture with Autoencoder Clustering and

Isolation Forest. -- Efficient face recognition model based ViT transformers architecture. -- Dynamic region proposal model for road anomalies detection and classification. -- Smart Data & IoT. -- Adaptive Transfer Learning for Mineral Grade Prediction in Mining Industry 4.0. -- A capacity constrained ant colony optimization approach for Electric Vehicle Routing Problem with a partial charging strategy. -- Industrial Modbus-LoRa data logger for digital twin's applications. -- BMA-Measure: A Novel Metric for Assessing the Quality of the Training Set. -- Dynamic Model Integration in the Articulated Manipulator Trajectory Planning. -- Improving Machine Learning Accuracy in Detection SQL Injection Attack using NLP and Feature Engineering. -- AI-Based Anomaly Detection for IoT Cybersecurity events. -- A concatenation Deep Learning Model for Photovoltaic inspection based on Aerial Infrared images. -- Where We Are in Handling IoT and Robotics' Data for Agro-ecology Applications?: An Architectural View. -- Synergizing Blockchain and Cloud: Elevating Decentralization and Scalability in Blockchain-Cloud Deployment Modes. -- Blockchain and Agile Methodology to Enhance Digital Transformation: The Case of SAFe Framework. -- Leader- Similarity for Community Detection in complex networks. -- Short Papers. -- Enhancing Academic Success: Performance Early Prediction Using Machine Learning Algorithms. -- Advancements in Arabic Handwritten Text Recognition: A Comprehensive Study of End-to-End Deep Learning Architecture with a Focus on Advanced Decoding Techniques. -- A Prediction Model Based On Recurrent Neural Network To Predict Freezing Of Gait Related To Parkinson's Disease. -- Protein-Protein Interaction Prediction using Graph Neural Networks. -- Enhancing Human-Robot Collaboration in Disassembly Processes Through Vision-Based Hardware Detection. -- Empowering Earthquake Management Through Advanced Machine Learning in Social Media Analytics and Facebook Data For Good Utilization: A 2023 Case Study. -- Machine Learning to identify the success patterns in Developing World Crowdfunding. -- Towards advanced modeling of road user behaviors for urban congestion management: a neural network-based framework. -- Development of a vulnerabilities online monitoring solution using machine learning. -- Enhanced Road Object Detection for ADAS Using YOLOv8 and Hyperparameter Evolution. -- Automation Synergy: Intrusion Detection through Deep Learning via a DevOps Pipeline in a Cloud Environment. -- Explainable AI for Energy prediction in Smart Building. -- Exploration of Semantic Segmentation Algorithms through Deep Learning for Extracting Water Bodies from Wetland Areas. -- A Comparative Study Between Solutions Proposed to Secure IoT Networks. -- Weathering the Storm: Evaluating the Generalization of recent Object Detection Models for UAV Power Line Inspection of Insulators in Challenging Meteorological Conditions.

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## Sommario/riassunto

This book constitutes the revised selected papers of the 12th International Conference of Innovation and New Trends in Information Technology, INTIS 2024, held in Tangier, Morocco, during May 30 – June 1, 2024. The 23 full papers and 15 short papers included in this book were carefully reviewed and selected from 82 submissions. They focus on the main layers of data-enabled systems/applications: data source layer, network layer, data layer, learning layer, and reporting layers while taking into account non-functional properties such as data privacy, security, and ethics.

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