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Nota di contenuto	-- Artificial Intelligence and Expert Systems in Engineering. -- Evaluation of Large Language Models in Annotating Metaphorical Sentences. -- Machine Learning-Based Predictive Approach for the Vessel's Trajectory Using Automatic Identification System and Meteorological Data. -- Harnessing Artificial Intelligence for Proactive Cybersecurity and Operational Optimization in Business Processes. -- Digital Technologies in Healthcare Systems. -- Integrative Review of

Machine Learning and Deep Learning Approaches for Cardiovascular Disease Detection, Classification, and Prediction. -- Psychographic Profiles of Healthcare Professionals and Their Impact on Prescribing Behaviour. -- The Impact of AI-Driven Digital Marketing Strategies on Pharmaceutical Consumer Behavior. -- The Impact of Artificial Intelligence on Medical Professional Language and Doctor-Patient Interactions. -- A New Hybrid Algorithm to Diagnose MS Using MRI Image Processing. -- Comparative Approach of Deep Learning Methods for Predicting Functional Outcomes After Stroke. -- Smart Supply Chain and Manufacturing Systems. -- Leveraging Supply Chain Analytics in the Era of Industry 4.0: A Comprehensive Guide to Data-Driven Optimization and Decision-Making. -- A Case Study on Traffic Forecasting for Supply Chain Management: Optimization of the Long Short-Term Memory Model. -- Defining Key Competencies for Smart and Sustainable Humanitarian Logistics. -- Smart Transportation and Logistics Systems. -- Integrating Pedestrian and Scooter Traffic: A Model for Safe Urban Mobility. -- A Study on Optimizing Training Time for Traffic Speed Estimation Using Graph Neural Networks. -- Optimization of Signalized Intersections: Analyzing Autonomous Vehicle Behaviors through Data-Driven Simulations. -- Integrating Machine Learning with Optimization to Solve Time-Dependent Cash in Transit Vehicle Routing Problem with Time Windows. -- Creation of A Fixed Wing UAV Based on Ardupilot Firmware with Elements of Radio Interference Countermeasure System. -- Optimizing Vehicle Routing in the Dial-a-Ride Problem Using Deep Q-Networks. -- Data Analytics and Advanced Optimization. -- Computational Approach for Solving Fredholm Integral Equations. -- Leveraging General Unary Hypotheses Automaton for Automating Technical Analysis: A Case Study on Bitcoin Prices. -- Data Science Techniques for Opinion Mining in Industrial Applications. -- Investigating the Performance of Recently Proposed Metaheuristic Optimization Algorithms on Real-World Engineering Design Problems. -- Comparison of Feasible Initial Solution Methods for the Knapsack Problem. -- A Comparative Approach to Multi-response Optimization for AWJM of Monel 400 Alloys Using Hybrid Metaheuristic-MCDM Techniques. -- Internet and Mobile Technologies. -- Developing Users' Acceptance Framework towards Mobile Commerce: An Exploratory Study. -- A Smartphone-Based Solution for Enhancing Interactive Learning Experiences in Early Childhood Education using NFC and Holographic Modules.

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#### Sommario/riassunto

This volume constitutes the refereed proceedings of the Second International Conference on Optimization and Data Science in Industrial Engineering, ODSIE 2024, held in Istanbul, Turkey, during November 7–8, 2024. The 25 full papers and 1 short paper included in this book were carefully reviewed and selected from 92 submissions. They were organized into topics such as : Artificial Intelligence and Expert Systems in Engineering; Digital Technologies in Healthcare Systems; Smart Supply Chain and Manufacturing Systems; Smart Transportation and Logistics Systems; Data Analytics and Advanced Optimization; and Internet and Mobile Technologies.

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