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Nota di contenuto -- Advances of AI/ML and Optimization in IT and Engineering. -- AI-Powered Route Optimization: Advancing Logistics and Environmental Sustainability (UNO-SDG-9,11,13,13,17). -- Advancing Quality Control & Predictive Maintenance in Manufacturing with AI, ML, Cloud, & IoT: Supporting Sustainable Development Goals 8, 9, 12, 13, and 17. -- Linking Artificial Intelligence to ERP: the case of Oracle. -- Performance Evaluation of Object Detection Models in Maritime

Applications. -- Developing a National-Level Strategic Management Model for Cybersecurity. -- Using Hybrid Methodologies to Improve Processes in Software Project Management. -- Fine-tuning VO Estimation Model Based on Deep Learning of TQU-SLAM Benchmark Dataset. -- Biometric Based Chaotic Cryptography for Multiuser Security System. -- Leveraging Artificial Intelligence for Enhanced Cybersecurity: Opportunities and Challenges. -- Novel AI techniques in Healthcare and Medicine. -- Enhancing Ischemic Stroke Patient Selection for Thrombectomy Using Deep-Learning Approach. -- Artificial Intelligence for Predicting Acute Ischemic Stroke Outcomes: Current Practices and Future Directions. -- Digital Health System and Carbon Footprint Analysis. -- Determination of the Optimal Appointment Time Interval in Digital Health Platform by Fuzzy Logic. -- Digital Technologies for Customer Service Orientation and Social Sustainability. -- The Role of Machine Learning in Improving the Quality of Academic Outcomes. -- Wavelet Transform applied to Iris Person Recognition. -- Consumer Health Question Summarization using Transformers and Data Augmentation. -- Enhancing Omnichannel Customer Experience: A Cross-Case Study Analysis of AI Integration in Retail E-Commerce. -- A review of a decade of academic research on emotional intelligence: A bibliometric approach. -- Green Economy in the Framework of Sustainable Development. -- DeepBot: Bot Détection in the Twitter Using Deep Learning Method for Social Media Security. -- Applications of AI/ML/DL in Traffic and Transportation Engineering. -- Decentralized Multi-Agent Traffic Light Control Using Swarm Intelligence for Improved Urban Traffic Flow. -- Innovative Traffic Information Interpolation Using Pheromone-Based Model. -- Unmanned Aerial Vehicles in Inventory Management: An Overview of Current Research and Applications. -- FSR in Wireless Sensor Networks and UAVs: Enhancing Routing Efficiency. -- Performance Comparison of Single-Stage and Two-Stage Detection Models for Real-Time Traffic Applications. -- Revolutionizing Aircraft Detection with Deep Learning for Satellite Imagery in Aviation. -- Benchmarking YOLOv7 and YOLOv8: Real-Time Pothole Detection Capabilities.

Sommario/riassunto	This book constitutes selected papers presented at the the 4th International Conference on Science, Engineering Management and Information Technology, SEMIT 2024, held in Ankara, Turkey, during September 12–13, 2024. The 27 full papers included in this book were carefully reviewed and selected from 123 submissions. These papers were organized in the following topical sections: Advances of AI/ML and Optimization in IT and Engineering; Novel AI Techniques in Healthcare and Medicine; Digital Technologies for Customer Service Orientation and Social Sustainability; Applications of AI/ML/DL in Traffic and Transportation Engineering.