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Nota di contenuto	-- Robotics. -- A Novel Task Assignment Strategy for Multi-Robot System. -- Robotic Path Optimization for Efficient Robot Movement in Harsh Environments. -- A Hybrid Approach for Path Planning in Harsh Environments Combining WOA and DMSGPSO. -- Multi-Class Semantic Segmentation of Photovoltaic Module Defects and Features: Towards Industrial Robotic Applications. -- Transformer-Based UWB Positioning: Learning to Correct Ranging Errors for Autonomous Agents. -- Collision Detection and Avoidance among SWARM Robots using Convolutional neural network (CNN) in Harsh Environment. -- Education. -- Interpretable Machine Learning for Predicting and Explaining Code Submission Outcomes in an Online Judge system. -- Teaching Practices and Effectiveness Assessment of AI Courses Assisted by Large Language Models. -- Cyber Security. -- A Self-Adaptive Multi-Modal Cyber Threat Intelligence Framework for Securing Industrial Communication Networks. -- RANsomCheck: A CNN-Transformer Model for Malware Detection Based on API Call Sequences. -- A Comprehensive Survey of Cryptography Key Management in Decentralized Identity Ecosystem. -- Healthcare and Medical

Applications. -- Assessment of frailty levels in older adults through smartphone applications. -- Ranking Lifelogs for Memory Recall Support. -- An Efficient and Cost-Effective Medicine Reminder and Dispenser System. -- Comparative Analysis of Large Language Models and Machine Learning Approaches for the Detection of Dengue Fever Information from ProMED-mail Platform. -- Model-based diagnosis for building systems - results of an initial feasibility study. -- Leveraging Real-World Data to Predict Macrovascular Complications in Type 2 Diabetes: A Comparative Machine Learning Study. -- T-test-based Feature Selection on DNA Microarrays Gene Expression Data for Leukemia Classification. -- MediTHIM: Temporal Hierarchical Imputation Methods for Medical Time Series. -- IoT system based on deep learning for the identification and feedback of work postures when using a computer. -- Advanced Applied Intelligence Methodologies and Application. -- A Novel Score Function for Ranking Interval-Valued Intuitionistic Fuzzy Values. -- BF-YOLOv7: Enhancing Helmet Rule Violation Detection. -- A Smartphone-based Early Detection and Remote Consultation System for Stroke and Dementia. -- Implementation of a One-Time Random Number Generation Mechanism for Zero-Trust Networks with IoT Transmission Verification. -- Adaptive DRL-Based Traffic Signal Control with an Infused LSTM Prediction Model. -- A Fast R1CS Normalization Method Based on Parameter Vectors. -- Effective Virtual Force Estimation with Semi-Parametric Joint Friction Compensation for Robot Manipulators. -- Enhancing Traffic Accident Detection with YOLOv5 in Smart City Road Monitoring. -- Intelligent Systems and e-Applications. -- Improving University Quality from Student Feedback with Sentiment Analysis. -- Fusion in Multimodal Sentiment Analysis: A Review of Approaches and Challenges. -- Multimodal Sarcasm Detection On Vietnamese Social Media. -- Fine-grained WEEE Product Retrieval Using Hybrid Search and Re-ranking. -- A Hybrid Knowledge-Based and Machine Learning Approach for Financial Health Prediction in Small and Medium-sized Enterprises. -- Enhancing Ransomware Detection Using Deep Learning Models. -- CAGN-GAT Fusion: A Hybrid Contrastive Attentive Graph Neural Network for Network Intrusion Detection. -- Industrial and Engineering Applications. -- Using Meta-Learning to Predict Work-in-Progress: An Approach for Small Datasets. -- Evaluating Large Language Models for the Automated Generation of Software Requirements. -- Establishing the subscription service strategies for digital music services using the DAA-NRM approach. -- Multi-Objective Energy-Efficient Scheduling in Two Stages Hybrid Flowshop under Consideration of No-wait. -- Beyond Air Pollution Prediction: A Step to Pollution Pattern Discovery With A Novel Binary Neuro-symbolic AI Framework . -- A Dual-Agent Framework for Condition-Based Maintenance of Production Systems. -- MST-SGAN-KGQA: An Approach for Industrial Knowledge Graph Quality Assessment. -- Adversarial Learning Based Error Detection for Industrial Knowledge Graphs. -- Development and Performance Evaluation of a Wiring Safety Detector for Electrical Sockets in Buildings.

## Sommario/riassunto

This book constitutes the refereed proceedings of the 38th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems on Advances and Trends in Artificial Intelligence, IEA/AIE 2025, held in Kitakyushu, Japan, in July 1–4, 2025. The 80 full papers and 9 short papers included in this book were carefully reviewed and selected from 130 submissions. They focus on the following topical sections: Part I: Reinforcement Learning; Optimization; Natural Language Processing; Multi-Agent; Machine Learning and Decision Making; Knowledge Representation; Data

Engineering; Large Language Model; Computer Vision. Part II: Robotics;  
Education; Cyber Security; Healthcare and Medical Applications;  
Advanced Applied Intelligence Methodologies and Applications;  
Intelligent Systems and e-Applications; Industrial and Engineering  
Applications.

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