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Autore	Cornford Steven L.
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Autore	Zhao Haiquan
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Altri autori (Persone)	FantiMaria Pia
Disciplina	004
Soggetti	Computer networks Computer Communication Networks
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Nota di contenuto	Part volume-I. Internet of Things Model Construction and Strategy Analysis. -- A Structural Design Optimization Framework Based on the Integration of SolidWorks, Patran, Nastran and Isight. -- Innovating Fire Monitoring System of High-rise Building around Internet of Things Technology. -- An Authentication Method Based on Improved Butterfly Optimization Algorithm and XGBoost. -- Strategies for Improved Data Transmission in LoRa IoT Systems: Evaluating Adaptive Data Rate and Shannon-Based Approaches. -- Robustness Analysis and Improvement of Networked Control Systems Based on Time-delay Compensation. -- Classification of Early Stages of Retinopathy of Prematurity Based on Convolutional Neural Networks of Weighted Ensemble Strategy. -- Research on the Data Storage Model for a Blockchain-Based Agricultural Product Traceability System. -- A Method for On-site Unmarked Identification of Product Assembly States. -- A Research on Perception Control and Simulation Modeling of an Industrial Internet Platform. -- A Memristive Neural Network for Learning and Generalization based on Albert Associative Memory. -- TIM-GCN Speech Emotion Recognition Network Based on Generative Adversarial Network. -- Machine Learning Based Network Attack Warning and Predictive Precision Protection. -- A Bayesian Update-Based Strategy

for Fusing Extended Traversability Maps. -- Acoustic Parameter Model of Consonants in Dunhuang Dialect. -- Innovative Heuristic-based Periodic Iterative RRT* Trajectory Planning Algorithm. -- Design and Construction of the Typical Application System of the Agricultural Internet of Things. -- Risk Assessment System for Digital Workshop. -- Research on Multi-AGV Hierarchical Intelligent Scheduling Method Based on Bidirectional A*. -- Controllable Emotional Speech Synthesis Based on the Ranking of Relative Emotional Attributes. -- Design of an Event Tracing Mechanism Based on a Domestic Hypervisor. Intelligent Sensing and Fault Detection Technology. -- Smart Meter Data Management and Visualization for Intelligent Energy Development. -- An Improved Zernike Moment Subpixel Edge Detection Algorithm Based on Adaptive Threshold. -- Railway Foreign Body Intrusion Algorithm Based on Improved YOLOv7-Tiny MS YOLOv7-Tiny. -- Self-supervised Graph Autoencoder with Node Feature Convolution for Community Detection. -- YOLO-GNN: An improved GNN based YOLOv4 Algorithm for Street Pedestrian Detection. -- Application of the RT-LSTM Model with Multi-dimensional Feature Extraction in PM2.5 Concentration Prediction. -- Research on Identification of Apple Leaf Diseases Based on an Improved YOLOv5s Model. Part volume-II Intelligent Sensing and Fault Detection Technology. -- Enhancing Fault Detection in Electric Vehicle Lithium Batteries Using Unlabeled Data. -- Bearing Faults Diagnosis Based on EEMD and Probability Density Analysis. -- Deep Learning-based Hand Keypoints Detection for Industrial Manipulation Gestures. -- Development of Static Calibration Device for Eddy Current Sensors. -- Prediction of Landing Spare Parts Consumption Based on Multiple Linear Regression. -- Navigation Fuel Consumption Prediction Based on Improved LSTM Network. -- Research on a Radar Image Alignment Method. -- One-shot Talking Head Generation with Audio-aware Identity Compensation. -- Lightweight End-to-End Enabled Joint Source-Channel Coding for Wireless AUV Image Transmission. -- Method for Predicting Impact Point of Trajectory Correction Projectile Based on IDBO-XGBoost. -- Research on Insulator Fault Detection Based on Improved YOLOv5. -- Design of Attitude Calculation Algorithm Based on Kalman and Mahony Complementary Filtering. Robot Modeling and Automation Control -- Research and Design of Terminal Logistics and Distribution Robots. -- Research and Implementation of Anti-pinch Function for Car Windows Based on Microcontroller. -- Design of Non-standard Injection Mold with Hot Runner for Outdoor Measuring Cup of Electric Vehicle. -- Multi-objective Electric Vehicle Route Optimization for Low-carbon Cold Chain Logistics Under Time-dependent Networks. -- Swin-MPGM: A Swin-Transformer Based Method for Content Separation in Challenging Environments. -- Flow Field Analysis and Structure Optimization of Silica Sol Shell Drying Chamber. -- Design of Personalized and Lightweight Rehabilitation Fixators Based on nTopology. -- Study on the Profiling of the Header and the Method for Measuring Cotton Stalk Height. -- Pump Equipment Fault Diagnosis Based on an Improved DenseNet Model. -- Research on the Residual Controllable Robot Grinding Technology of 500KV High-voltage Cable Insulation Layer. -- A Peg-in-hole Assembly Method Based on Hybrid Visual Information. -- Robotic Grasping Object Recognition Method Based on 3D Point Cloud in Multi-Object Stacking Scenes. -- Time-optimal Trajectory Planning of a Robotic Arm Based on an Improved Adaptive Inertia Weight Particle Swarm Algorithm. -- An Automatic Generation Method for Business Process Specification Based on Large Language Models. -- Design of a Smart Wearable Power Supply Scheme for abrasive Water Jet Equipment in Troubleshooting Condition. -- Design of An Automatic

Take Tooth Threading Robotic Arm Based on Solidworks.

Sommario/riassunto

The two-volume set LNICST 641 and 642 constitutes the proceedings of the 5th International Conference on Internet of Things, Artificial Intelligence and Mechanical Automation, IoTAIMA 2024, held in Hangzhou, China, during July 19–21, 2024. The 38 full papers and 17 short papers included in this book were carefully reviewed and selected from 126 submissions. They focus on rapid development of technology, the IoT, AI and mechanical automation. They were organized in topical sections as follows: Part I: Internet of Things Model Construction and Strategy Analysis; Intelligent Sensing and Fault Detection Technology Part II: Intelligent Sensing and Fault Detection Technology; Robot Modeling and Automation Control.
