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Soggetti	Automatic control Robotics Automation Artificial intelligence Image processing - Digital techniques Computer vision Signal processing Control, Robotics, Automation Artificial Intelligence Computer Imaging, Vision, Pattern Recognition and Graphics Signal, Speech and Image Processing
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Nota di contenuto	Performance Optimization and Acceleration of Machine Learning Algorithms in Task Allocation of Mine Maintenance Robots -- Intelligent Design and Evaluation of Aging Adaptable Public Spaces Based on Deep Learning -- Optimization Strategy for Inventory Management Based on Machine Learning -- Application of Deep Learning Algorithms in the Innovation Ecosystem of Electric Power -- Research on the Combination of Building Structural Health Monitoring and Deep Learning Image Processing -- Application of Image

Watermarking Technology Based on Deep Learning in Copyright Protection -- Study on Deep Learning-Based Personalized Product Recommendation Model for Autonomous Question and Answer Robot -- Research on Application and Effect Evaluation of Product Innovation Management Based on Deep Learning -- Multi-scale Point Cloud Shape Completion Network Based on Deep Learning -- Research on Improving Neural Machine Translation Based on Deep Learning Technology -- Deep-Thinking Prototypical Network: A Conjecture on the Interaction of Unmanned Vehicles with Human Mind.

Sommario/riassunto

This book contains new research works presented at the Third World Conference on Intelligent and 3D Technologies (WCI3DT2024), organized by IRNet International Academic Communication Center, held in Shanghai, China during May 24-26, 2024. The main topics in this volume cover contemporary parts in the area of the multidimensional signal processing, based on deep learning and related applications. Special attention is given to neural networks, which make up the backbone of deep learning algorithms and their improvement, and research works aimed at the real-time interaction with unmanned vehicles, machine translation, cloud computing, personalized product recommendation model for autonomous robots, power production monitoring and control, optimization and acceleration of machine learning algorithms, pattern recognition, building crack detection and many others.
