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Nota di contenuto	Intelligent Modeling and Simulation -- Research on integrated design of satellite energy system based on X Language -- Collaborative Modeling Method for System-CAD Integration Based on X Language -- Modeling and Simulation of High Mountain Wind Power Operation and Maintenance System Based on Petri Net -- Agent-based Wartime Medical Evacuation Modeling and Simulation -- A digital quantum simulation framework for entanglement distribution in noisy quantum channels -- An Equipment Digital Twin Modeling Method Based On TCN-Transformer -- Constructing Multi-level Credibility Models for Digital Twins: A Benchmark for Credibility Evaluation -- A Framework for Credible Self-Evolution of Equipment Digital Twins -- Control Theory and Methods for Intelligent Networked Things -- Prescribed-time event-triggered bipartite consensus in a game-based system -- Controllability of Node and Edge dynamics Multi-agent Systems -- Fixed-time synchronization of multi-layer networks via dynamic event-triggered mechanism -- Quantized guaranteed cost control for uncertain networked control systems with non-uniform sampling -- Fixed-Time Consensus of Second-Order Multi-agent Systems under Event-Triggered Intermittent Control -- Fuzzy correlation Entropy-

Based Predictive LQR Controller optimization for Heavy-Duty Vehicles -- Consensus and Controllability of Double-Layer Star Networks -- BPNN-MPC based Load Frequency Control Method for Power Systems with Variable Parameters -- 3 Intelligent Perception and Interconnection -- Multi-FPGA-based Collaborative Platform for Composable Intelligent Algorithms -- Semi-supervised Learning-based Coal and Gangue Acoustic Signal Recognition -- Dynamic Security Perception Method for Power Production Data Network Based on PPDR -- A Multi-feature Fusion Model for RF Fingerprint Recognition in Low SNR Scenarios -- Global-View 3D Reconstruction of Complex Steel Components with Cobot-driven Line Structured Light Sensor -- Embodied Intelligence -- Design of Cable-Driven Flexible Robot Used in Laryngoscopic Surgery -- Study on the Swimming Control of Bionic Robotic Fish Based on the Shallow Brain Model -- Design of bipedal robot motion controller based on ZMP theory and MPC -- Research on Autonomous Robotic Recognition and Disassembly of Bolts -- Robotic Automated Disassembly Using Reinforcement Learning: A Case Study on Peg-Hole Disassembly -- High-Precision Hand-Eye Calibration Method Based on Contact Constraints and Iterative Optimization -- Optimization and Decision for Intelligent Networked Things -- Energy consumption optimization method for robotic disassembly process using Bees algorithm -- Distributed Mirror Descent for Nonconvex Constrained Optimization -- Distributed Constrained Optimization for General Second-Order Multiagent Systems.-Integrated Optimization of Order Picking, Production and Delivery in Customized Manufacturing System -- Reactive Jamming Resilient Power Allocation in Cognitive Radio Networks via Deep Reinforcement Learning -- Production-intralogistics Synchronized Scheduling in Matrix Manufacturing Workshops -- Distributed fixed-time optimization for external disturbances with time-varying -- Target Coverage Path Planning for Inventory Count with RFID-equipped UAV.

Sommario/riassunto

This two-volume set, CCIS 2624 and CCIS 2625, constitutes the refereed proceedings of the 8th China Intelligent Networked Things Conference, CINT 2025, held in Zhuhai, China, during June 13–15, 2025. The 69 full papers were carefully reviewed and selected from 173 submissions. The main topics of this conference include the following fields: Intelligent Perception and Interconnection, Embodied Intelligence, Intelligent Modeling and Simulation, Control Theory and Methods for Intelligent Networked Things, Optimization and Decision for Intelligent Networked Things, Mathematics for Intelligent Networked Things, Artificial Intelligence for Networked Things, Systems and Applications for Intelligent Networked Thing, etc .