

1. Record Nr.	UNINA9910747595103321
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Titolo	Proceedings of 2023 Chinese Intelligent Systems Conference : Volume I // edited by Yingmin Jia, Weicun Zhang, Yongling Fu, Jiqiang Wang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819968473 981996847X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (870 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1089
Altri autori (Persone)	ZhangWeicun FuYongling WangJiqiang
Disciplina	006.3
Soggetti	Computational intelligence Automatic control Robotics Automation Artificial intelligence Computational Intelligence Control, Robotics, Automation Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Efficient PBFT Algorithm Research Based on Credit Value Model -- MK-DCCA Based Fault Diagnosis for Incipient Fault in Nonlinear Dynamic Processes -- An Improved Siamese Capsule Networks Classification Method for Few Sample Remote Sensing Images -- Robotic Arm Grasping Based on Deep Reinforcement Learning -- Multidimensional non-linear ship trajectory prediction based on LSTM network corrected by GA-BP -- Design and Simulation of the Hydraulic System for Height Adjustment of Carriages -- Virtual Model Control Algorithm Simulation for Lower Limb Assist Exoskeleton -- Neural network based singularity-free adaptive prescribed performance control of two-mass systems -- Intelligent Path Planning for Home Service Robots Based on Improved RRT Algorithm -- Adaptive Neural Networks Backstepping

Control of Uncertain Second-Order Systems with Input and State Time Delays -- Satellite-Terrestrial Integrated Network Slicing Resource Management based on reinforcement learning -- Event-triggered adaptive neural network trajectory tracking control of MSVs under deception attacks -- Planetary Flight Obstacle Avoidance Guidance Method Based on ES and DQN -- Improving unmanned panoramic perception algorithm of DAFPN-YOLO -- Development of Electromagnetic Model for Linear Force Motor in Direct-Drive Hydraulic Servo Actuators -- Analysis on structure and kinematics for a novel decoupled rope-driven manipulator -- Fractional order LMS algorithms: a review and application in signal denoising -- Research on Low-Cost IMU Testing Methods -- Androgynous Tool Quick-Change Mechanism and its Misalignment Tolerance of Space Manipulator -- Fast parameter estimation algorithm for the signal modeling based on equation solution -- Second Harmonic-Compensated Phase-Locked Loop for Resolver-to-Digital Conversion -- Adaptive tracking of nonlinear switched systems with sensor uncertainties based on weighted average voting algorithm -- Load distribution of planetary roller screw mechanism with roller threads modification -- Finite-time H Synchronization Control of Piecewise Homogeneous Markov jumping T-S Fuzzy Discrete Complex Networks Subject to Hybrid Attacks and Uncertainty -- Modeling and Control Algorithm of the Multi-duct-rotor Mode Transformable Aircraft -- VR-based Virtual Surgical Training via Parametric Human Body Modeling -- Key-agent based dynamic prioritized planning for multi-agent systems -- Fixed-time Tracking Control for Robotic Manipulators Based on Adding a Power Integrator Method -- Model-free optimal control for linear systems with state and control inequality constraints -- Binary Consensus of Multi-Agent Systems With Privacy Preserving And Random Communication Noises -- Highway Abandoned Object Detection Based on Foreground Extraction -- YOLO-Based Semantic Segmentation for Dynamic Removal in Visual-Inertial SLAM -- Design and implementation of integrated operations control center based on cloud architecture -- Observability of Edge Dynamics in Complex Networks -- A Modified Orthogonal Experimental Method for Configuration Data Acquisition Planning of Industrial Robots -- Event-Triggered Adaptive Finite-Time Tracking Control for Full States Constrained Robot Manipulators -- Research on Satellite Routing Method Based on Q-learning in Failure Scenarios -- Ensemble Regularized Polynomial Regression for Diagnosing Breast Cancer Subtypes -- Smart Laboratory: A New Smart-manufacturing-technologies-enabled Chemical Experiment Paradigm -- Design and implementation of humanoid robot arm based on human arm mechanism -- A hybrid variable impedance force control method for industrial robots -- Flexo-coupled drive dexterous finger differential motion control -- The hardware in loop simulation system design based on PLC for the process control -- Research on Gas Source Location of quadruped Robot based on DDQN -- A tracking loop method for parallel receiver with low interaction overhead -- Three-channel Decoupling Control for Fighter Aircraft based on PPC and LADRC -- Characterization of Lissajous Scanning Trajectory Based on 2D MEMS Mirror -- SINR Communication Based Fast Predictive Control for CPSs Under DoS Attacks -- Experimental Research on High Strength Steel for Side Milling Processes -- Feature Matching Method Based on Improved SIFT and KLT -- Violation Detection Method Based on Improved YOLOv5s -- A Visual-LiDAR Object Tracking Method Using Correlation Filter And Potential Matching -- A model based on Trend-Seasonal Decomposition and GCN for traffic flow prediction -- Formation Control of Multiple Nonholonomic Wheeled Robots with

Disturbances -- Compute a Class of Refinable Function By a Matlab Code and its Figures -- Analysis of Vibration Characteristics and Structural Improvement of Rolling Ball Joint Swinging Nozzle -- Adaptive Tracking Control for Manipulators with Prescribed Performance -- Nighttime Vehicle Object Detection Based on Improved YOLOv7 -- A Demagnetization Fault Diagnosis Strategy for Vehicle Permanent Magnet Synchronous Motor -- Design and implementation of UAV semi-physical simulation system based on VxWorks -- Nonsingular fast terminal sliding mode control of Stewart parallel robot -- Distributed optimization algorithm for multi-agent system with time-varying communication delay based on the game theory -- Distributed Formation Control Based on Linear Model for Power-line Inspection Robots -- A dynamic trust-based access control for multi-domain cloud systems -- On the Digital Intelligence for Online Retail Decision Support -- Modeling and High-Order Differential Feedback Control of Unmanned Helicopter Under Disturbances -- Three-phase single-switch active power factor corrector based on UC1854 -- Study of Digital Test Method for Cable-driven Dexterous Hand -- DETR with Recursive Gated Convolution Encoder -- Discrete Input-to-State Stability with Respect to Boundary and Distributed Disturbances for Balance Laws Systems -- A Remote Mobile Image Acquisition System and Experimental Simulation of Indoor Scenes Based on An RGB-D Camera -- Flexible load market bargaining scheduling strategy for active distribution network based on demand response -- Research on Intelligent Collaboration and Obstacle Avoidance Control of Multiple Parafoils System -- Construction of Knowledge Graphs Related to Industrial Key Production Processes for Query and Visualization -- Multi-objective Optimization Design of the Structural parameters of swing arm crawler rescue robot -- An Anomaly Detection Algorithm for Logs Based on Self-Attention Mechanism and BiGRU Model.

Sommario/riassunto

This book constitutes the proceedings of the 19th Chinese Intelligent Systems Conference, CISC 2023, which was held during October 14–15, 2023, in Ningbo, Zhejiang, China. The book focuses on new theoretical results and techniques in the field of intelligent systems and control. This is achieved by providing in-depth studies of a number of important topics such as multi-agent systems, complex networks, intelligent robots, complex systems theory and swarm behavior, event-driven and data-driven control, robust and adaptive control, big data and brain science, process control, intelligent sensors and detection technology, deep learning and learning control, navigation and control of aerial vehicles, and so on. The book is particularly suitable for readers interested in learning intelligent systems and control and artificial intelligence. The book can benefit researchers, engineers and graduate students.
