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Autore	Le Xinyi
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Altri autori (Persone)	ZhangZhijun
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Nota di contenuto	Optimization Algorithms -- A Continuous Time Algorithm with Quantified Event Triggered for Distributed Resource Allocation Optimization -- A Novel Neurodynamic Approach to Bilevel Quadratic Programming -- A Collaborative Neurodynamic Optimization Algorithm of Eco routing with Electricity Allocation for PHEVs -- Energy Storage Scheduling Optimization Strategy Based on Deep Reinforcement Learning -- A Penalty like Neurodynamic Approach to Convex Optimization Problems with Set Constraint -- Doubly Accelerated Proximal Gradient for Nonnegative Tensor Decomposition -- Adversarial Learning, Transfer Learning, and Deep Learning -- Beyond

Universal Transformer Block Reusing with Adaptor in Transformer for Automatic Speech Recognition -- HiFi WaveGAN Generative Adversarial Network with Auxiliary Spectrogram Phase Loss for High Fidelity Singing Voice Generation -- Efficient 3D View Synthesis from Single Image Utilizing Diffusion Priors -- 3D Multi scene Stylization Based on Conditional Neural Radiance Fields -- A Novel Entropy Based Regularization for NeRF to View Synthesis in Few Shot Scenarios -- PhonHuBERT a Phoneme Transcription Tool for Song Datasets -- Audio LLM Activating the Capabilities of Large Language Models to Comprehend Audio Data -- Improve Adversarial Robustness of MNIST Classification via Topological Data Analysis -- DiffMoCa Diffusion Model based Multi modality Cut and Paste -- Transfer Learning Based Deep Learning Model for Corn Leaf Disease Classification -- CSFuser A Cascade Siamese Fusion Architecture for RGB Infrared Object Detection -- An Improved YOLOv8 Target Detection Algorithm and its Application in Tennis Ball Picking Robot -- Deep Learning Based K Line Chart Recognition for Financial Quantitative Investment Analysis -- Temporal Difference Enhancement Network for Driving Behavior Recognition -- Signal, Image and Video Processing -- A Temporal Consistency Learning Framework for Face Forgery Detection -- Root Sparse Bayesian Learning Based 2D Off Grid DOA Estimation Algorithm for Massive MIMO Systems -- A Robust Visual SLAM System in Dynamic Environment -- CoYOLOv7 An Efficient Oil Spill Identification Network Based on SAR Images -- A Visual Inertial SLAM Method for Fusing Point and Line Features -- Classification of Coffee Leaves Using Smartphone Images and Convolutional Neural Networks -- KeyAtNet Keystroke Signal Real time Eavesdropping based on Fourier Neural Operator -- Enhancing Fruit and Vegetable Image Classification with Attention Mechanisms in Convolutional Neural Networks -- Contraband Detection Based on YOLOv7 Tiny XRay Image -- DCFNet Dense Complementary Fusion for RGB Thermal Urban Scene Perception -- An Improved YOLOv3 SPP Algorithm for Image Based Pothole Detection -- Modeling, Analysis, and Implementation of Neural Networks -- 3W SLP A Conceptual Model of Three Way Single Layer Perceptrons -- Mean Square Exponential Stability of Neural Stochastic Delay Neural Networks -- Circuit Implementation of Fixed time Zeroing Neural Network for Time varying Equality Constrained Quadratic Programming -- Optimized VLSI Circuit Partitioning and Testing Using ACO and BIST Architectures -- Boundary Stabilization of Complex Coupled Hyperbolic Stochastic Systems -- New Results on Input to State Stability of Memristor Based Inertial Neural Networks -- A Modified Hopfield Model with Adjustable Activation Function for Buridan's Assay -- Simplified GZN Gradient Zhang Neurodynamic Continuous Model and Discrete Algorithms Handling Temporally Varying ODLMVE Over Determined Linear Matrix Vector Equation -- Simplified Gradient Zeroing Neuronet for Temporally Variant Convex Objective Function Minimization -- Improved Memristive Binarized Neural Networks using Transformer DCBNN Architecture with CBAM Attention Mechanism -- Light weight SA BNN High precision Olfactory Recognition of Binary Neural Networks -- Control Systems, Robotics, and Autonomous Driving -- Distributed Optimal Consensus Control for Heterogeneous Multi agent System with Disturbance -- Research on Optimal Control Strategy for Infectious Disease Prevention and Control -- A Learning Powered Model Predictive Control for Hybrid Electric Vehicles with Real world Driving Data -- nuScenesComplex A More Rigorous Evaluation Framework for End to End Autonomous Driving Planning -- Dual Criteria Robot Control: Optimization with End Effector Orientation Constraints -- Fault Diagnosis and Intelligent Industry -- Abnormal Vibration Fault

Diagnosis of Reducer Based on Bayesian Network -- Research on Fault Diagnosis of Surge Arresters Based on Support Vector Recurrent Neural Network -- Research on Workstation Planning of Spacecraft Pulsating Assembly Lines Based on Improved Genetic Algorithm -- A Novel Method Based on Particle Swarm Optimization Support Vector Neural Network for Transformer Fault Diagnosis -- Text Extraction and Structuring of Standard Maintenance Documents for Metallurgical Continuous Casting Equipments -- Research on Job Scheduling Method for Metallurgical Equipment Manufacturing Workshop Based on Genetic Algorithm -- Bio signal, Bioinformatics and Biomedical Engineering -- A Deep Learning Approach for Single Cell Perturbation Prediction Using Small Molecule Chemical Structures -- To Distinguish Internal Infestation in Wheat Kernels Using Biophoton Technology and CS BP Algorithm -- Study of Segmentation Networks in the Detection of Ringspot Virus -- Neural Networks for Classification of Immunofixation Electrophoresis Tests -- CardiacRT NN Real Time Detection of Cardiovascular Disease Using Self Attention CNN LSTM for Embedded Systems. -Boosting Personalized Musculoskeletal Modeling with Deep Transfer Learning A Case Study.

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#### Sommario/riassunto

This volume constitutes the refereed proceedings of the 18th International Symposium on Neural Networks, ISNN 2024, held in Weihai, China, during 11-14, July 2024. The 59 full papers were carefully reviewed and selected from 82 submission. They are categorized in the following sections: Optimization Algorithms; Adversarial Learning, Transfer Learning, and Deep Learning; Signal, Image, and Video Processing; Modeling, Analysis, and Implementation of Neural Networks; Control Systems, Robotics, and Autonomous Driving; Fault Diagnosis and Intelligent Industry & Bio-signal, Bioinformatics, and Biomedical Engineering.

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