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Soggetti	Artificial intelligence Computer networks Social sciences - Data processing Computer engineering Image processing - Digital techniques Computer vision Artificial Intelligence Computer Communication Networks Computer Application in Social and Behavioral Sciences Computer Engineering and Networks Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Award -- Quantized Separable Residual Network for Facial Expression Recognition on FPGA -- Hole-peg Assembly Strategy Based On Deep Reinforcement Learning -- EEG-based Emotion Recognition Using Convolutional Neural Network with Functional Connections -- Fast barcode detection method based on ThinYOLOv4 -- The Realtime Indoor Localization for Unmanned Aerial Vehicle -- Algorithm -- L1-norm and Trace Lasso based Locality Correlation Projection -- Episodic Training for Domain Generalization Using Latent Domains -- A Novel Attitude Estimation Algorithm Based on EKF-LSTM Fusion Model -- METAHACI: Meta-learning for Human Activity Classification from IMU Data -- Fusing Knowledge and Experience with Graph Convolutional

Network for Cross-task Learning in Visual Cognitive Development -- Factored Trace Lasso based Linear Regression Methods: Optimizations and Applications -- Path Planning and Simulation Based on Cumulative Error Estimation -- MIMF: Mutual Information-driven Multimodal Fusion -- Application -- Spatial Information Extraction of Panax Notoginseng Fields Using Multi-algorithm and Multi-sample Strategy-based Remote Sensing Techniques -- Application of Convolution BLS in AI Face-changing Problem -- Cognitive Calculation Studied for Smart System to Lead Water Resources Management -- A Robotic Arm Aided Writing Learning Companion for Children -- Design and Implement of Omnidirectional Mobile Robot Platform with Remote Visual Control -- AG-DPSO: Landing Position Planning Method for Multi-node Deep Space Explorer -- A New Parallelized Semi-supervised Deep Learning for Remaining Useful Life Prediction -- Balancing Task Allocation in Multi-robot Systems using AdpK-means Clustering Algorithm -- Reinforcement Learning for Extreme Multi-label Text Classification -- Manipulation -- Multimodal Object Analysis with Auditory and Tactile Sensing using Recurrent Neural Networks -- A Novel Pose Estimation Method of Object in Robotic Manipulation using Vision-based Tactile Sensor -- Design and Implementation of pneumatic soft gripper with suction and grasp composite structure -- Movement Primitive Libraries Learning for Industrial Manipulation Tasks -- Guided Deep Reinforcement Learning for Path Planning of Robotic Manipulators -- Large-scale multi-agent reinforcement learning based on weighted mean field -- Selective Transition Collection in Experience Replay -- Design and Grasping Experiments of Soft Humanoid Hand with Variable Stiffness -- Bioinformatics -- Prediction the age of human brains from gene expression -- Deep LSTM Transfer Learning for Personalized ECG Anomaly Detection on Wearable Devices -- Reflection on AI: The cognitive difference between libraries and scientists -- A Review of Research on Brain-Computer Interface Based on Imagined Speech -- A Survey of Multimodal Human-Machine Interface -- A Logistic Regression Based Framework for Spatio-temporal Feature Representation and Classification of Single-trial EEG -- Biometric Traits Share Patterns -- Cervical Cell Detection Benchmark with Effective Feature Representation -- Vision A -- Image Fusion for Improving Thermal Human Face Image Recognition -- Automatic Leaf Recognition Based on Attention DenseNet -- Semantic Segmentation for Evaluation of Defects on Smartphone Screens -- Image Clipping Strategy of Object Detection for Super Resolution Image in Low Resource Environment -- Image Quality Assessment with Local Contrast Estimator -- Application of Broad learning system for image classification based on deep features -- Emotion Recognition Based on Graph Neural Networks -- A Light-Weight Stereo Matching Network with Color Guidance Refinement -- Vision B -- Overview of Monocular Depth Estimation Based on Deep Learning -- Non-contact physiological parameters detection based on MTCNN and EVM -- Texture Classification of a Miniature Whisker Sensor with Varied Contact Pose -- Semantic-based Road Segmentation for High-Definition Map Construction -- Transformer Region Proposal for Object Detection -- A Feature Fusion based Object Tracking Algorithm -- Detection and Reconstruction of Transparent Objects with Infrared Projection-based RGB-D Cameras -- Autonomous Vehicles -- A Simulation-to-Real Autonomous Driving System Based on End-to-End Learning -- Underwater SLAM Based On Forward-Looking Sonar -- Robust Visual Odometry Using Semantic Information in Complex Dynamic Scenes -- A Multi-Sensor Data Fusion Method based on Improved XGBoost Model for AGV Localization -- Multi UAV Target Tracking based on the Vision and Communication Information -- An

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Cognitive Systems and Signal Processing, ICCSIP 2020, held in Zhuhai, China, in December 2020. The 59 revised papers presented were carefully reviewed and selected from 120 submissions. The papers are organized in topical sections on algorithm; application; manipulation; bioinformatics; vision; and autonomous vehicles.