1. Record Nr. UNINA9910864191403321

Autore	Ren Jinchang
Titolo	Advances in Brain Inspired Cognitive Systems : 13th International Conference, BICS 2023, Kuala Lumpur, Malaysia, August 5–6, 2023, Proceedings / / edited by Jinchang Ren, Amir Hussain, Iman Yi Liao, Rongjun Chen, Kaizhu Huang, Huimin Zhao, Xiaoyong Liu, Ping Ma, Thomas Maul
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819714179 9819714176
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (410 pages)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 14374
Altri autori (Persone)	HussainAmir LiaoIman Yi ChenRongjun HuangKaizhu ZhaoHuimin LiuXiaoyong MaPing MaulThomas
Disciplina	006.3
Soggetti	Artificial intelligence Machine learning Computer science Logic, Symbolic and mathematical Social sciences - Data processing Computer simulation Artificial Intelligence Machine Learning Theory of Computation Mathematical Logic and Foundations Computer Application in Social and Behavioral Sciences Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di contenuto

Bio-inspired systems and Neural Computation -- Vision-Based Deep Q-Learning on Simple Control Problems: Stabilization via Neurogenesis Regularization -- Knowledge Representation for Conceptual, Motivational, and Affective Processes in Natural Language Communication -- GSA-UBS: A Novel Medical Hyperspectral Band Selection based on Gravitational Search Algorithm -- Enhancing generalizability of deep learning polyp segmentation using online spatial interpolation and hue transformation -- MLM-LSTM: Multi-layer Memory Learning Framework based on LSTM for Hyperspectral Change Detection -- A hierarchical geometry-to-semantic fusion GNN framework for earth surface anomalies detection -- Zero-shot incremental learning algorithm based on bi-alignment mechanism -- Cross-Modal Transformer GAN: A Brain Structure-Function Deep Fusing Framework for Alzheimer's Disease -- Image Recognition, Detection and Classification Evaluation of post-hoc interpretability methods in breast cancer histopathological image classification -- Red Blood Cell Detection Using Improved Mask R-CNN -- Underwater Object Detection for Smooth and Autonomous Operations of Naval Missions: A Pilot Dataset -- RSF-SSD: An Improved SSD Algorithm Based on Multi-level Feature Enhancement -- GaitMG: A Multi-Grained Feature Aggregate Network for Gait Recognitio -- Saliency Detection on Graph Manifold Ranking via Multi-scale Segmentation -- Research on improved algorithm of significance object detection based on ATSA model -- UAV Cross-modal Image Registration: Large-scale Dataset and Transformer-based Approach -- Vision and Object Tracking -- How Challenging is a Challenge for SLAM? An Answer from Quantitative Visual Evaluation -- Generalized W-Net: Arbitrary-style Chinese Character Synthesization -- Blind Deblurring of QR Codes with Local Extremum Intensity Prior -- Image Enhancement for UAV Visual SLAM Applications: Analysis and Evaluation -- Segmentation Framework for Heat Loss Identification in Thermal Images: Empowering Scottish Retrofitting and Thermographic Survey Companies -- Mixed-Precision Collaborative Quantization for Fast Object Tracking -- Pre-Diagnosis for Autism Spectrum Disorder Using Eye-Tracking and Machine Learning Techniques -- HRMOT: Two-step association based Multi-object Tracking in Satellite Videos Enhanced by High-Resolution Feature Fusion -- Data Analysis and Machine Learning Application of manifold recognition target identification method in seismic exploration -- Effects of PCA-Enabled Machine Learning Classification of Stress and Resting State EEGs -- Fatigue Detection Algorithm Based On Discrete Wavelet Transform of EEG Signals -- Visual Sentiment Analysis with a VR Sentiment Dataset on Omni-directional Images -- Generating Type-related Instances and Metric Learning to Overcoming Language Priors in VQA Fusing Multi-scale Attention and Transformer for Detection and Localization of Image Splicing Forgery -- SAR Incremental Learning via Generative Adversarial Network and Experience Replay -- FaceReenactment Based on Motion Field Representation -- LWGSS: Light-Weight Green Spill Suppression for Green Screen Matting -- Visual-Textual Attention for Tree-Based Handwritten Mathematical Expression Recognition -- WildTechAlert: Deep learning models for real-time detection of elephant presence using bioacoustics in an early warning system to support human-elephant coexistence.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Conference on Brain Inspired Cognitive Systems, BICS 2023, held in Kuala Lumpur, Malaysia, in August 2023. The 36 full papers included in this book were reviewed and selected from 58 submissions and are organized in thematic sections as follows: Bio-inspired systems and

Neural Computation; Image Recognition, Detection and Classification; Vision and Object Tracking; Data Analysis and Machine Learning and Applications.