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Nota di contenuto	Evolutionary Computation and Learning -- Multi-Objective Optimization-Based Task Offloading and Power Control for Mobile Edge Computing -- An Evolutionary Neuron Model with Dendritic Computation for Classification and Prediction -- An Improved Genetic Algorithm for Distributed Job Shop Scheduling Problem -- An improved teaching-learning-based optimization for multitask optimization problems -- Emotion Recognition from Facial Expressions Using a Genetic Algorithm to Feature Extraction -- An Efficient Competitive Swarm Optimizer for Solving Large-Scale Multi-objective Optimization Problems -- KGT: An Application Mapping Algorithm Based on Kernighan–Lin Partition and Genetic Algorithm for WK-recursive NoC Architecture -- Evolutionary Algorithms for Applications of Biological Networks: A Review -- Computational prediction of protein-protein interactions in plants using only sequence information -- Image and signal Processing -- A Diabetic Retinopathy Classification Method Based on Novel Attention Mechanism -- A Comparable Study on Dimensionality Reduction Methods for Endmember Extraction -- Hyperspectral image classification with locally linear embedding, 2D spatial filtering and SVM -- A Hierarchical Retrieval Method Based on Hash Table for Audio Fingerprinting -- Automatic extraction of

document information based on OCR and image registration technology -- Using Simplified Slime Mould Algorithm for Wireless Sensor Network Coverage Problem -- Super-large medical image storage and display technology based on concentrated points of interest -- Person Re-Identification Based on Hash -- A robust and automatic recognition method of pointer instruments in power system -- Partial Distillation of Deep Feature for Unsupervised Image Anomaly Detection and Segmentation -- Speech Recognition Method For Home Service Robots Based On CLSTM-HMM Hybrid Acoustic Model -- Serialized Local Feature Representation Learning for Infrared-Visible Person Re-identification -- A Novel Decision Mechanism for Image Edge Detection -- Rapid Earthquake Assessment from Satellite Imagery using RPN and Yolo v3 -- Attention-based Deep Multi-Scale Network for Plant Leaf Recognition -- Information Security -- Short Video Users' Personal Privacy Leakage and Protection Measures -- An Efficient Video Steganography Method Based on HEVC 326 -- Analysis on the Application of Blockchain Technology in Ideological and Political Education in Universities -- Parallel Security Video Streaming in Cloud Server Environment -- An Efficient Video Steganography Scheme for Data Protection in H.265/HEVC -- A Robust Lossless Steganography Method Based on H.264/AVC -- Research on Application of Blockchain Technology in Higher Education in China -- Neural Networks -- Multi-Class Text Classification Model Based on Weighted Word Vector and BiLSTM-Attention Optimization -- Fault Diagnosis Based on Unsupervised Neural Network in Tennessee Eastman process -- Constraint Interpretable Double Parallel Neural Network and Its Applications in the Petroleum Industry -- Alcoholism detection via 5-layer customized convolution neural network -- A heterogeneous 1D convolutional architecture for urban photovoltaic estimation -- Adversarial attacks and defenses in deep learning: A survey -- Pattern Recognition -- Fine-Grained Recognition of Crop Pests Based on Capsule Network with Attention Mechanism -- Small Object recognition based on the Generative Adversarial Network and Multi-Instance Learning -- Deep Learning Based Semantic Page Segmentation of Document Images in Chinese and English -- Non-central Student-t Mixture of Student-t Processes for Robust Regression and Prediction -- Multi-Class Tissue Classification in Colorectal Cancer with Handcrafted and Deep Features -- Plant Leaf Recognition Network Based on Fine-grained visual classification -- Anomaly Detection based on Video Prediction and Latent Space constraints -- A Robust Distance Regularized Potential Function for Level Set Image Segmentation -- Label Similarity Based Graph Network for Badminton Activity Recognition -- MITT: Musical Instrument Timbre Transfer based on the Multichannel Attention-Guided Mechanism -- Classification of benign-malignant pulmonary nodules based on multi-view improved dense network -- Deep Convolution Neural Network Based Research on Recognition of Mine Vehicle Head and Tail -- Compact Finite-State Super Transducers for Grapheme-to-Phoneme Conversion in Highly Inflected Languages -- Swarm Intelligence and Optimization -- An improved SMA algorithm for solving global optimization problems -- An Improved Chicken Swarm Optimization Algorithm with Fireworks Factor -- An Improved Lagrangian Relaxation Algorithm for Solving the Lower Bound of Production Logistics -- Multidimensional Estimation of Distribution Algorithm for Distributed No-Wait Flow-Shop Scheduling Problem with Sequence-Independent Setup Times and Release Dates -- Hybrid whale optimization algorithm for solving green open vehicle routing problem with time windows -- Hybrid Grey Wolf Optimizer for Vehicle Routing Problem with Multiple Time Windows -- Spatial

prediction of stock opening price based on improved whale optimized twin support vector regression -- Channel Assignment Algorithm Based on Discrete BFO for Wireless Monitoring Networks -- A multi-objective particle swarm optimization algorithm embedded with maximum fitness function for dual-resources constrained flexible job shop scheduling -- An Improved Firefly Algorithm for Generalized Traveling Salesman Problem -- Virtual Reality and Human-Computer Interaction -- User study on an online-training system of activity in daily life for the visually impaired -- Person Property Estimation based on 2D LiDAR Data using Deep Neural Network -- Detection of Pointing Position by Omnidirectional Camera -- Optimization of Low-speed Dual Rotor Axial Flux Generator Design through Electromagnetic Modelling and Simulation -- A Lightweight Attention Fusion Module for Multi-Sensor 3-D Object Detection -- Regression-Aware Classification Feature for Pedestrian Detection and Tracking in Video Surveillance Systems -- Efficient Face Detector Using Spatial Attention Module in Real-time Application on an Edge Device -- Non-tactile Thumb Tip Measurement System for Encouraging Rehabilitation After Surgery -- Real-time Prediction of Future 3D Pose of Person using RGB-D camera for Personalized Services -- ROS2-based Distributed System Implementation for Logging Indoor Human Activities -- The Virtual Camera Path in 3D Animation.

Sommario/riassunto

This two-volume set of LNCS 12836 and LNCS 12837 constitutes - in conjunction with the volume LNAI 12838 - the refereed proceedings of the 17th International Conference on Intelligent Computing, ICIC 2021, held in Shenzhen, China in August 2021. The 192 full papers of the three proceedings volumes were carefully reviewed and selected from 458 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is “Advanced Intelligent Computing Methodologies and Applications.” The papers are organized in the following subsections: Evolutionary Computation and Learning, Image and signal Processing, Information Security, Neural Networks, Pattern Recognition Swarm Intelligence and Optimization, and Virtual Reality and Human-Computer Interaction.