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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fingerprint, Palmprint and Vein Recognition -- A Finger BiModal Fusion Algorithm based on Improved DenseNet -- A lightweight segmentation network based on extraction -- A novel multi-layered minutiae extractor based on OCT fingerprints -- An overview and forecast of biometric recognition technology used in forensic science -- Combining Band-Limited OTSDF Filter and Directional Representation for Palmprint Recognition -- Cross-Dataset Image Matching Network

for Heterogeneous Palmprint Recognition -- DUAL MODE NEAR-INFRARED SCANNER FOR IMAGING DORSAL HAND VEINS -- Multi-Stream Convolutional Neural Networks Fusion for Palmprint Recognition -- Multi-view Finger Vein Recognition using Attention-based MVCNN -- SELECTIVE DETAIL ENHANCEMENT ALGORITHM FOR FINGER VEIN IMAGES -- SP-FVR: SuperPoint-based Finger Vein Recognition -- TransFinger: Transformer based Finger Tri-modal Biometrics -- Face Detection, Recognitionand Tracking -- A Survey of Domain Generalization-based Face Anti-spoofing -- An Empirical Comparative Analysis of Africans with Asians using DCNN Facial Biometric Models -- Disentanglement of Deep Features for Adversarial Face Detection -- Estimation of Gaze-Following Based on Transformer and the Guiding Offset -- Learning Optimal Transport Mapping of Joint Distribution for Cross-Scenario Face Anti-Spooffing -- MLFW: A Database for Face Recognition on Masked Faces -- Multi-scale object detection algorithm based on adaptive feature fusion -- Sparsity-Regularized Geometric Mean Metric Learning for Kinship Verification -- YoloMask: An Enhanced YOLO Model for Detection of Face Mask Wearing Normality, Irregularity and Spoofing -- Gesture and Action Recognition -- Adaptive Joint Interdependency Learning for 2D Occluded Hand Pose Estimation -- Contrastive and Consistent Learning for Unsupervised Human Parsing -- Dynamic Hand Gesture Authentication Based on Improved Two-stream CNN -- Efficient Video Understanding-based Random Hand Gesture Authentication -- Multidimension Joint Networks for Action Recognition -- Multi-Level Temporal-Guided Graph Convolutional Networks for Skeleton-Based Action Recognition -- Research on Gesture Recognition of Surface EMG Based on Machine Learning -- Affective Computing and Human-Computer Interface -- Adaptive Enhanced Micro-expression Spotting Network based on Multi-stage Features Extraction -- Augmented Feature Representation with Parallel Convolution for Cross-domain Facial Expression Recognition -- Hemispheric Asymmetry Measurement Network for Emotion Classification -- Human Action Recognition Algorithm of Non-Local Two-Stream Convolution Network Based on Image Depth Flow -- Synthetic Feature Generative Adversarial Network for Motor Imagery Classification: Create Feature from Sampled Data -- Speaker and Speech Recognition -- An End-to-end Conformer-based Speech Recognition Model for Mandarin Radiotelephony Communications in Civil Aviation -- ATRemix: An Auto-Tune Remix Dataset for Singer Recognition -- Low-resource speech keyword search based on residual neural network -- Online Neural Speaker Diarization with Core Samples -- Pose-unconstrainted 3D Lip Behaviometrics via Unsupervised Symmetry Correction -- Virtual Fully-Connected Layer for a Large-Scale Speaker Verification Dataset -- Gait, Iris and Other Biometrics -- A Simple Convolutional Neural Network for Small Sample Multi-lingual Offline Handwritten Signature Recognition -- Attention Skip Connection Dense Network for Accurate Iris Segmentation -- Gait Recognition with Various Data Modalities: A Review -- INCREMENTAL EEG BIOMETRIC RECOGNITION BASED ON EEG RELATION NETWORK -- Salient Foreground-Aware Network for Person Search -- Shoe print retrieval algorithm based on improved ecientnetV2 -- Multi-modal Biometric Recognition and Fusion -- A novel dual-modal biometric recognition method based on weighted joint group sparse representation classification -- FINGER TRIMODAL FEATURES CODING FUSION METHOD -- Fusion of Gait and Face for Human Identification at the Feature Level -- Gait Recognition in Sensing Insoles: a study based on a Hybrid CNN-Attention-LSTM Network -- Identity Authentication Using a Multimodal Sensing Insole a Feasibility Study -- MDF-Net: Multimodal Deep Fusion

for Large-scale Product Recognition -- Survey on Deep Learning based Fusion Recognition of Multimodal Biometrics -- Synthesizing Talking Face Videos with a Spatial Attention Mechanism -- Quality Evaluation and Enhancement of Biometric Signals -- Blind Perceptual Quality Assessment for Single Image Motion Deblurring -- Low-illumination Palmprint Image Enhancement Method Based On U-Net Neural Network -- Texture-guided multiscale feature learning network for palmprint image quality assessment -- Animal Biometrics -- An Adaptive Weight Joint Loss Optimization For Dog Face Recognition -- Improved YOLOv5 for Dense Wildlife Object Detection -- Self-Attention based Cross-level Fusion Network for Camou aged Object Detection -- Trustyworth, Privacy and Persondal Data Security -- Face Forgery Detection by Multi-dimensional Image Decomposition -- IrisGuard: Image Forgery Detection for Iris Anti-spooffing -- Multi-branch network with circle loss using voice conversion and channel robust data augmentation for synthetic speech detection -- Spoof Speech Detection Based on Raw Cross-dimension Interaction Attention Network -- Medical and Other Applications -- A Deformable Convolution Encoder with Multi-Scale AttentionFusion Mechanism for Classification of Brain Tumor MRI Images -- GI Tract Lesion Classification Using Multi-task Capsule Networks with Hierarchical Convolutional Layers -- Grading Diagnosis of Sacroiliitis in CT Scans Based on Radiomics and Deep Learning -- Noninvasive blood pressure waveform measurement method based on CNN-LSTM -- Recurrence Quantification Analysis of Cardiovascular System During Cardiopulmonary Resuscitation -- UAV AERIAL PHOTOGRAPHY TRAFFIC OBJECT DETECTION BASED ON LIGHTWEIGHT DESIGN AND FEATURE FUSION -- UMixer: A novel U-shaped convolutional mixer for multi-scale feature fusion in Medical Image Segmentation.

Sommario/riassunto

This book constitutes the proceedings of the 16th Chinese Conference on Biometric Recognition, CCBR 2022, which took place in Beijing, China, in November 2022. The 70 papers presented in this volume were carefully reviewed and selected from 115 submissions. The papers cover a wide range of topics such as Fingerprint, Palmprint and Vein Recognition; Face Detection, Recognition and Tracking; Gesture and Action Recognition; Affective Computing and Human-Computer Interface; Speaker and Speech Recognition; Gait, Iris and Other Biometrics; Multi-modal Biometric Recognition and Fusion; Quality Evaluation and Enhancement of Biometric Signals; Animal Biometrics; Trustworthy, Privacy and Personal Data Security; Medical and Other Applications.