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| Nota di contenuto | An Efficient Residual Convolutional Neural Network with Attention Mechanism for Smoke Detection in Outdoor Environment -- Expeditious Object Pose Estimation for Autonomous Robotic Grasping -- SRTGAN: Triplet Loss based Generative Adversarial Network for Real-World Super Resolution -- Machine Learning Based Webcasting Analytics for Indian Elections - Reflections on Deployment -- Real-time Plant Species Recognition using Non-Averaged DenseNet-169 Deep Learning Paradigm -- Self Similarity Matrix based CNN Filter Pruning -- Class Agnostic, On-Device and Privacy Preserving Repetition Counting of Actions from Videos using Similarity Bottleneck -- Class Agnostic, |

On-Device and Privacy Preserving Repetition Counting of Actions from Videos using Similarity Bottleneck -- Vehicle ReID: Learning Robust Feature using Vision Transformer and Gradient Accumulation for Vehicle Re-identification -- Attention Residual Capsule Network for Dermoscopy Image Classification -- SAMNet : Semantic Aware Multimodal Network for Emoji Drawing Classification -- Segmentation of Smoke Plumes Using Fast Local Laplacian Filtering -- Rain Streak Removal via Spatio-channel based Spectral Graph CNN for Image Deraining -- Integration of GAN and Adaptive Exposure Correction for Shadow Removal -- Non-invasive Haemoglobin Estimation using Different Colour and Texture Features of Palm -- Detection of Coal Quarry and Coal Dump Regions Using the Presence of Mine Water Bodies from Landsat 8 OLI/TIRS Images -- Brain tumor grade detection using Transfer learning and Residual Multi-head Attention Network -- A curated dataset for spinach species identification -- Mobile Captured Glass Board Image Enhancement -- Computing Digital Signature by Transforming 2D Image to 3D: A Geometric Perspective -- Varietal Classification of Wheat Seeds using Hyperspectral Imaging Technique and Machine Learning Models -- CUSTOMIZED PREVIEW VIDEO GENERATION USING VISUAL SALIENCY: A CASE STUDY WITH VISION DOMINANT VIDEOS -- Deep Dilated Convolutional Network for Single Image Dehazing -- T2CI-GAN: Text to Compressed Image generation using Generative Adversarial Network -- Prediction of Fire Signatures Based on Fractional Order Optical Flow and Convolution Neural Network -- Colonoscopy Polyp Classification Adding Generated Narrow Band Imaging -- Multi-class Weather Classification using Single image via feature fusion and selection -- Scene Text Detection with Gradient Auto Encoders -- A Novel Scheme for Adversarial Training to Improve the Robustness of DNN Against White Box Attacks -- Solving Diagrammatic Reasoning Problems Using Deep Learning -- Bird Species Classification from images using Deep Learning -- Statistical Analysis of Hair Detection and Removal Techniques using Dermoscopic Images -- TrafficSign Detection and Recognition using Dense Connections in YOLOv4 -- Novel Image and its Compressed Image Based on VVC Standard, Pair Data Set for Deep Learning Image and Video Compression Applications -- FAV-Net: A Simple Single-Shot Self-Attention Based ForeArm-Vein Biometric -- Low-Textural Image Registration: Comparative Analysis of Feature Descriptors -- Structure-Based Learning for Robust Defense Against Adversarial Attacks in Autonomous Driving Agents -- Improving the CNN Feature maps through Integration of Channel Attention for Handwritten Text Recognition -- XAIForCOVID-19: A comparative analysis of various explainable AI techniques for COVID-19 diagnosis using chest x-ray images -- Features Assimilation via Three-Stream Deep Networks for Spam Attack Detection from Images -- A Transformer based UNet Architecture for fast and Efficient Image Demoiring -- Auxiliary CNN for graspability modeling with 3D point clouds and images for robotic grasping -- Face Presentation Attack Detection Using Remote Photoplethysmography Transformer Model -- MTFL: Multi-task federated learning for classification of healthcare X-ray images -- Speech-based Automatic Prediction of Interview Traits -- Pneumonia Detection Using Deep Learning Based Feature Extraction and Machine Learning -- Classification of Synthetic Aperture Radar Images using a modified DenseNet model -- Combining Non-Local Sparse and Residual Channel Attentions for Single Image Super-resolution Across Modalities -- An End-to-End Fast No-Reference Video Quality Predictor with Spatiotemporal Feature Fusion -- Low-Intensity Human Activity Recognition Framework using Audio Data in an Outdoor Environment

-- Detection of Narrow River Trails with the Presence of Highways from Landsat 8 OLI Images -- Unsupervised Image to Image translation for multiple retinal pathology synthesis in optical coherence tomography scans -- Combining Deep-learned and Hand-crafted Features for Segmentation, Classification and Counting of Colon Nuclei in H&E Stained Histology Images -- MULTIPLE OBJECT TRACKING BASED ON TEMPORAL LOCAL SLICE REPRESENTATION OF SUB-REGIONS -- An Ensemble Approach for Moving Vehicle Detection and Tracking by using Ni Vision Module -- Leaf Spot Disease Severity Measurement in Terminalia Arjuna using Optimized Superpixels.

Sommario/riassunto

This two volume set (CCIS 1776-1777) constitutes the refereed proceedings of the 7th International Conference on Computer Vision and Image Processing, CVIP 2022, held in Nagpur, India, November 4–6, 2022. The 110 full papers and 11 short papers were carefully reviewed and selected from 307 submissions. Out of 121 papers, 109 papers are included in this book. The topical scope of the two-volume set focuses on Medical Image Analysis, Image/ Video Processing for Autonomous Vehicles, Activity Detection/ Recognition, Human Computer Interaction, Segmentation and Shape Representation, Motion and Tracking, Image/ Video Scene Understanding, Image/Video Retrieval, Remote Sensing, Hyperspectral Image Processing, Face, Iris, Emotion, Sign Language and Gesture Recognition, etc.
