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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 11845
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Soggetti	Pattern recognition systems Image processing - Digital techniques Computer vision Artificial intelligence Computer networks Data protection Automated Pattern Recognition Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence Computer Communication Networks Data and Information Security
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Note generali	Includes index.
Nota di contenuto	Applications II -- Dual Snapshot Hyperspectral Imaging System for 41-band Spectral Analysis & Stereo Reconstruction -- Joint Optimization of Convolutional Neural Network and Image Preprocessing Selection for Embryo Grade Prediction in In Vitro Fertilization -- Enhanced Approach for Classication of Ulcerative Colitis Severity in Colonoscopy Videos using CNN -- Innite Gaussian Fisher Vector to support video-based Human Action Recognition -- Deep Learning II -- Do Humans Look

Where Deep Convolutional Neural Networks "Attend"? -- Point Auto-Encoder and Its Application to 2D-3D Transformation -- U-net based architectures for document text detection and binarization -- Face detection in thermal images with YOLOv3 -- 3D Object Recognition with Ensemble Learning — A Study of Point Cloud-Based Deep Learning Models -- Virtual Reality II -- Designing VR and AR Systems with Large Scale Adoption in Mind -- VRParaSet: A Virtual Reality model for visualizing multidimensional data -- Occlusion and Collision Aware Smartphone AR using Time-of-Flight Camera -- Augmenting Flight Imagery from Aerial Refueling -- Object Recognition/Detection/Categorization -- Hierarchical Semantic Labeling With Adaptive Condence -- An Active Robotic Vision System with a Pair of Moving and Stationary Cameras -- Background Modeling through Spatiotemporal Edge Feature and Color -- Fast Object Localization via Sensitivity Analysis -- On the Salience of Adversarial Examples -- Poster -- Entropy Projection Curved Gabor with Random Forest and SVM for Face Recognition -- Guitar Tablature Generation using Computer Vision -- A Parametric Perceptual Decit Modeling and Diagnostics Framework for Retina Damage using Mixed Reality -- Topologically-Guided Color Image Enhancement -- A Visual Analytics Approach for Analyzing Technological Trends in Technology and Innovation Management -- A Framework for Collecting and Classifying Objects in Satellite Imagery -- Moving Objects Segmentation Based on DeepSphere in Video Surveillance -- Benchmarking Video With The Surgical Image Registration Generator (SIRGn) Baseline -- Towards Fine-grained Recognition: Joint Learning for Object Detection and Fine-grained Classication -- Foreground Object Image Masking via EPI and Edge Detection for Photogrammetry with Static Background -- Lidar-Monocular Visual Odometry with Genetic Algorithm for Parameter Optimization -- Residual CNN Image Compression -- CNNs and Transfer Learning for Lecture Venue Occupancy and Student Attention Monitoring -- Evaluation of the Interpolation Errors of Tomographic Projection Models -- Skin Lesion Segmentation Based on Region-Edge Markov Random Field -- Centerline Extraction from 3D Airway Trees Using Anchored Shrinking -- A 360 Degree Video Virtual Reality Room Demonstration -- A Computational System for Structural Visual Analysis of Labor Accident Data -- Fast Contextual View Generation in 3D Medical Images using a 3D Widget User Interface and Super-ellipsoids -- A Virtual Reality Framework for Training Incident First Responders and Digital Forensic Investigators -- Tactical Rings : A Visualization Technique for Analyzing Tactical Patterns in Tennis -- Cross-Media Sentiment Analysis in Brazilian Blogs -- Diagnosing Huntington's Disease through gait dynamics -- On the Potential for Facial Attractiveness as a Soft Biometric -- A Modied Viola-Jones Detector for Low-cost Localization of Car Plates -- Evaluating ber detection models using Neural Networks -- RISEC: Rotational Invariant Segmentation of Elongated Cells in SEM images with Inhomogeneous Illumination -- Performance Evaluation of WebGL and WebVR Apps in VR Environments -- IFOC: Intensity Fitting on Overlapping Cover for Image Segmentation.

Sommario/riassunto	This book constitutes the refereed proceedings of the 14th International Symposium on Visual Computing, ISVC 2019, held in Lake Tahoe, NV, USA in October 2019. The 100 papers presented in this double volume were carefully reviewed and selected from 163 submissions. The papers are organized into the following topical sections: Deep Learning I; Computer Graphics I; Segmentation/Recognition; Video Analysis and Event Recognition; Visualization; ST: Computational Vision, AI and Mathematical methods

for Biomedical and Biological Image Analysis; Biometrics; Virtual Reality I; Applications I; ST: Vision for Remote Sensing and Infrastructure Inspection; Computer Graphics II; Applications II; Deep Learning II; Virtual Reality II; Object Recognition/Detection/Categorization; and Poster.