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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 11855
Disciplina	617.7 616.07
Soggetti	Optical data processing Artificial intelligence Computer science—Mathematics Computer organization Image Processing and Computer Vision Artificial Intelligence Mathematics of Computing Computer Systems Organization and Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Dictionary Learning Informed Deep Neural Network with Application to OCT Images -- Structure-aware Noise Reduction Generative Adversarial Network for Optical Coherence Tomography Image -- Region-Based Segmentation of Capillary Density in Optical Coherence Tomography Angiography -- An applied-target loss approach for photoreceptor layer segmentation in pathological OCT scans -- Foveal avascular zone segmentation in clinical routine uorescein angiographies using multitask learning -- Guided M-Net for High-resolution Biomedical Image Segmentation with Weak Boundaries -- 3D-CNN for Glaucoma Detection using Optical Coherence Tomography -- Semi-supervised Adversarial Learning for Diabetic Retinopathy Screening -- Shape

Decomposition of Foveal Pit Morphology using Scan Geometry
Corrected OCT -- U-Net with spatial pyramid pooling for drusen
segmentation in optical coherence tomography -- Deriving Visual Cues
from Deep Learning to Achieve Subpixel Cell Segmentation in Adaptive
Optics Retinal Images -- Robust Optic Disc Localization by Large Scale
Learning -- The Channel Attention based Context Encoder Network for
Inner Limiting Membrane Detections -- Fundus Image based Retinal
Vessel Segmentation Utilizing A Fast and Accurate Fully Convolutional
Network -- Network pruning for OCT image classification -- An
improved MPB-CNN segmentation method for edema area and
neurosensory retinal detachment in SD-OCT images -- Encoder-
Decoder Attention Network for Lesion Segmentation of Diabetic
Retinopathy -- Multi-Discriminator Generative Adversarial Networks for
improved thin retinal vessel segmentation -- Fovea Localization in
Fundus Photographs by Faster R-CNN with Physiological Prior --
Aggressive Posterior Retinopathy of Prematurity Automated Diagnosis
via a Deep Convolutional Network -- Automated Stage Analysis of
Retinopathy of Prematurity Using Joint Segmentation and Multi-
Instance Learning -- Retinopathy Diagnosis using Semi-supervised
Multi-channel Generative Adversarial Network.

Sommario/riassunto

This book constitutes the refereed proceedings of the 6th International Workshop on Ophthalmic Medical Image Analysis, OMIA 2019, held in conjunction with the 22nd International Conference on Medical Imaging and Computer-Assisted Intervention, MICCAI 2019, in Shenzhen, China, in October 2019. The 22 full papers (out of 36 submissions) presented at OMIA 2019 were carefully reviewed and selected. The papers cover various topics in the field of ophthalmic image analysis.
