



Assessment of Morphology and Function in Retinal Degeneration by Multi-Modal Mapping

By Eric Tröger

Shaker Verlag Jul 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Various morphological and functional techniques for retinal examination have been established in recent years. For an integrative characterization of retinal structure in clinical routine, the registration of morphological and functional data as well as the extraction of parameters, such as the thickness of certain retinal layers, need to be available in a practicable and efficient way for clinicians. In this work, the development and use of a novel software solution is described, allowing, for the first time, a comprehensive mapping of a multitude of functional and morphological ophthalmological data from a wide range of established routine clinical examination devices, including fundus photography, optical coherence tomography, scanning laser ophthalmoscopy images, GDx retinal nerve fiber layer thickness profiles, multifocal electroretinography, multifocal pattern electroretinography, perimetry, and microperimetry. Different quantitative parameters that can be used for visual status assessment, such as the structural properties of the vascular network, and the integration of the corresponding extraction functionality into the software are presented. The software supports graphics hardware accelerated semi-automatic image registration and provides a special multi-modal mapping view for regional parameter extraction across data from different devices. The main chapter of this work gives a...



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