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Journal of Ophthalmology

Special Issue on

Retinal Medical Image Analysis

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Age-related macular degeneration, diabetic retinopathy, and glaucoma are the main retinal diseases; they are also the main causes of human blindness in both developed and developing countries. Therefore, effective and early diagnosis and treatment are highly desired. Currently, retinal medical imaging is one of the main diagnostic means for eye diseases. Specifically with the rapid progress in the development and utilization of relatively new ophthalmic imaging modalities such as spectral-domain optical coherence tomography (SD-OCT) and their applicability to ophthalmic disease, there is an increasing critical need for retinal image analysis techniques.

This special issue is intended to bring together scientists and clinicians from multiple disciplines in the growing ophthalmic image analysis community, such as electronic engineering, computer science, mathematics, and medicine, to discuss the latest advancements in the retinal image field.

Potential topics include, but are not limited to:

- ▶ Computer-aided detection and diagnosis of disease using retinal ophthalmic images
- ▶ Image-analysis of novel retinal imaging modalities including but not limited to OCT and fundus images
- ▶ Multimodal retinal ophthalmic image analysis
- ▶ Retinal ophthalmic image atlases
- ▶ Registration of retinal ophthalmic images
- ▶ Segmentation of structures in retinal ophthalmic imaging modalities

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/joph/rmia/>.

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