



## Ophthalmological Imaging and Applications

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Edited by and featuring contributions from world-class researchers, **Ophthalmological Imaging and Applications** offers a unified work of the latest human eye imaging and modeling techniques that have been proposed and applied to the diagnosis of ophthalmologic problems, including inflammation, cataracts, diabetic retinopathy, and glaucoma. With a focus on theory, basic principles, and results derived from research, the book:

- Explores various morphological, textural, higher-order spectral, and wavelet transformation techniques used to extract salient features from images of the human eye
- Examines 2D and 3D finite element and boundary element models of the human eye developed to simulate thermal steady-state conditions
- Addresses the difficult task of benchmarking the validity of human eye imaging techniques and computer-simulated results with experimental measurements

Intended to be a companion to *Image Analysis and Modeling in Ophthalmology*, this volume covers several aspects of multimodal ophthalmological imaging and applications, presenting information in an accessible manner to appeal to a wide audience of students, researchers, and practitioners. **Ophthalmological Imaging and Applications** considers promising simulations that pave the way for new possibilities in computational methods for eye health care.

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