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Book title: Computational Methods and Deep Learning for Ophthalmology
Editor: Dr. D. Jude Hemanth, Professor, ECE Dept., Karunya University, India

Topics of Interest: (not limited to)

1. Medical Image processing algorithms and filters for fundus image enhancement
2. Bioinspired optimization of parameters for retinal image analysis
3. Deep learning methods for feature extraction and analysis in OCT/Fundus images
4. Intelligent systems for early diagnosis of stages of vein occlusion diseases
5. Deep learning classifiers to differentiate stages of diabetic retinopathy
6. Fuzzy based segmentation of blood vessels and lesions in fundus images
7. Segmentation methods for anatomical structures in fundus images
8. Identification of glaucoma from fundus images using computational techniques
9. Segmentation of optic disc and analysis for the identification of abnormalities
10. Drusen detection in eye images using modified deep learning techniques
11. Computational methods for identification of macular degeneration.
12. Exudates Detection and Macular Edema Estimation in eye Images
13. Classification of retinal diseases using transfer learning approaches
14. Deep learning-based identification of abnormalities using ERG signals
15. Efficient tool for screening of cataract using hybrid artificial neural networks
    [Preference will be given for deep learning-based ophthalmology works]

Important Dates:

1-Page Abstract (with title, keywords and author details)	: **30th November, 2021**
Abstract decision (acceptance/rejection) notification	: **5th December, 2021**
Submission of full chapter	: **5th February, 2022**
First review notification	: **5th March, 2022**
Submission of revised chapters	: **5th April, 2022**
Final decision notification	: **30th April, 2022**

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