

THUMBNAIL
NOT
AVAILABLE



[DOWNLOAD PDF](#)

Digital Image Processing for Ophthalmology: Detection and Modeling of Retinal Vascular Architecture (Paperback)

By Faraz Oloumi, Rangaraj M. Rangayyan, Anna L. Ells

Morgan Claypool Publishers, United States, 2014. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book. The monitoring of the effects of retinopathy on the visual system can be assisted by analyzing the vascular architecture of the retina. This book presents methods based on Gabor filters to detect blood vessels in fundus images of the retina. Forty images of the retina from the Digital Retinal Images for Vessel Extraction (DRIVE) database were used to evaluate the performance of the methods. The results demonstrate high efficiency in the detection of blood vessels with an area under the receiver operating characteristic curve of 0.96. Monitoring the openness of the major temporal arcade (MTA) could facilitate improved diagnosis and optimized treatment of retinopathy. This book presents methods for the detection and modeling of the MTA, including the generalized Hough transform to detect parabolic forms. Results obtained with 40 images of the DRIVE database, compared with hand-drawn traces of the MTA, indicate a mean distance to the closest point of about 0.24mm. This book illustrates applications of the methods mentioned above for the analysis of the effects of proliferative diabetic retinopathy and retinopathy of prematurity on retinal vascular architecture.



[READ ONLINE](#)
[7.48 MB]

Reviews

It is really an remarkable book i have at any time study. It is rally intriguing throgh reading through time. Your life period will likely be change when you complete looking at this pdf.

-- Alyce Lemke

This pdf is amazing. I actually have read and i also am sure that i am going to planning to read once more yet again in the foreseeable future. Your lifestyle period will probably be convert once you total looking at this publication.

-- Ms. Aileen Larkin

See Also



[The Birds Christmas Carol \(Paperback\)](#)

BOOK JUNGLE, United States, 2009. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book ***** Print on Demand *****.Kate Douglas Wiggin was an American children s author and educator. She started the first free kindergarten in San...



[The Flag-Raising \(Paperback\)](#)

BOOK JUNGLE, United States, 2010. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book ***** Print on Demand *****.Kate Douglas Wiggin was an American children s author and educator. She started the first free kindergarten in San...



[Homespun Tales \(Paperback\)](#)

BOOK JUNGLE, United States, 2009. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book ***** Print on Demand *****.Kate Douglas Wiggin was an American children s author and educator. She started the first free kindergarten in San...



[ESV Study Bible, Large Print](#)

CROSSWAY BOOKS, United States, 2014. Leather / fine binding. Book Condition: New. Large Print. 257 x 190 mm. Language: English . Brand New Book. The ESV Study Bible, Large Print edition transforms the content of the award-winning ESV Study Bible into a...



[Mother Stories \(Paperback\)](#)

Bluewater Publications, United States, 2010. Paperback. Book Condition: New. Sarah Noble-Ives (illustrator). 235 x 191 mm. Language: English . Brand New Book ***** Print on Demand *****.I have endeavored to write, for mothers and dear little children, a few simple stories, embodying...



[Mother Carey s Chickens \(Paperback\)](#)

BOOK JUNGLE, United States, 2010. Paperback. Book Condition: New. 235 x 191 mm. Language: English . Brand New Book ***** Print on Demand *****.Kate Douglas Wiggin was an American children s author and educator. She started the first free kindergarten in San...
