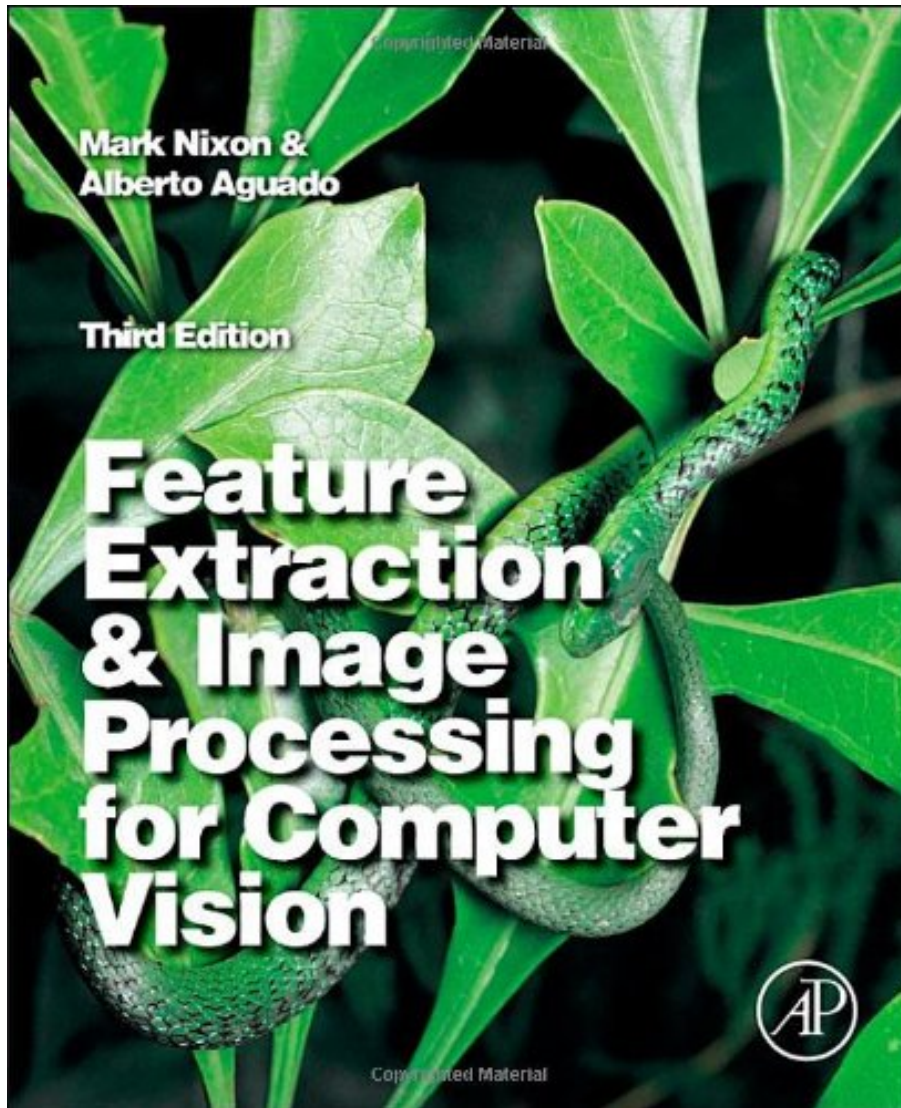


FEATURE EXTRACTION AND IMAGE PROCESSING FOR COMPUTER VISION, THIRD EDITION BY MARK NIXON



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Review

"...the book is well written and is easy to follow. In fact, the presentation order is the logical order of any actual computer vision system processing pipeline. The authors have done a great job grouping related topics together and touching upon recent techniques."--IAPR Newsletter, October 2013 "The mathematical element is presented in a non-mathematical way thus making the content more accessible...this edition is a very welcome addition to vision extraction."--IMA.org, August 2013 "All in all, I highly recommend this 600 pager as an introduction for students, and as a reference for practitioners. The latter audience will find an abundance of use references in each chapter..."--ComputingReviews.com, April 18, 2013 "After reviewing the human vision system, Nixon...and Aguardo...introduce signal processing theory for computer vision and current digital techniques for edge detection within an image, fixed shape matching, and deformable shape analysis. The undergraduate engineering textbook also explains the characterization of objects by boundary, region, and texture descriptions."--Reference and Research Book News, February 2013

From the Back Cover

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- Named a 2012 Notable Computer Book for Computing Methodologies by Computing Reviews
 - Essential reading for engineers and students working in this cutting-edge field
 - Ideal module text and background reference for courses in image processing and computer vision
 - The only currently available text to concentrate on feature extraction with working implementation and worked through derivation
-
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Most helpful customer reviews

9 of 10 people found the following review helpful.

Unavoidable book for Image Processing Scientists and Lecturers

By Babatunde H.O

This is lovely book. As a PhD student, I have been looking for a solution to a problem in image processing for 3 months but when I got this book it solved most of my problems. In fact, my PhD supervisor even liked the book. I strongly, without any forms of reservation, recommend this book for people working in image analysis and pattern recognition. The MATLAB codes in the book are also detailed and explanatory.

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By Sebastian Gomez

I haven't yet read the whole book but I've found so far what I need to give this book a good rating. It has a good balance between the mathematical background and practical implementations. Furthermore, when the theory is not well covered the proper references to the original papers or books are given. I like it!!!

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Good as a handbook for image processing and low-level computer vision.

By Chang-Su Kim

This book covers recent topics, as well as classical ones, in image processing and low-level computer vision. Its coverage is broad and extensive, which is very difficult to achieve in these fast developing research fields.

However, it is better as a handbook for experts, rather than as a textbook for students. Notations are not consistent across chapters or sections, and some of them are quite weird. For example, v , v' , v'' denote trajectory, velocity and acceleration in the discussion of curvature. I would prefer p , v , a . Also, a few equations contain errors, which inexperienced students cannot find easily.

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