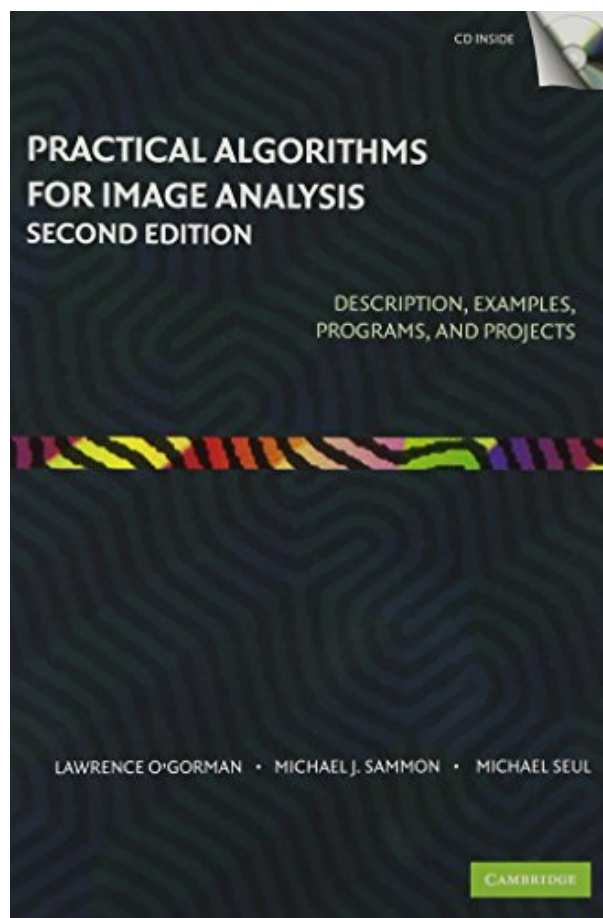
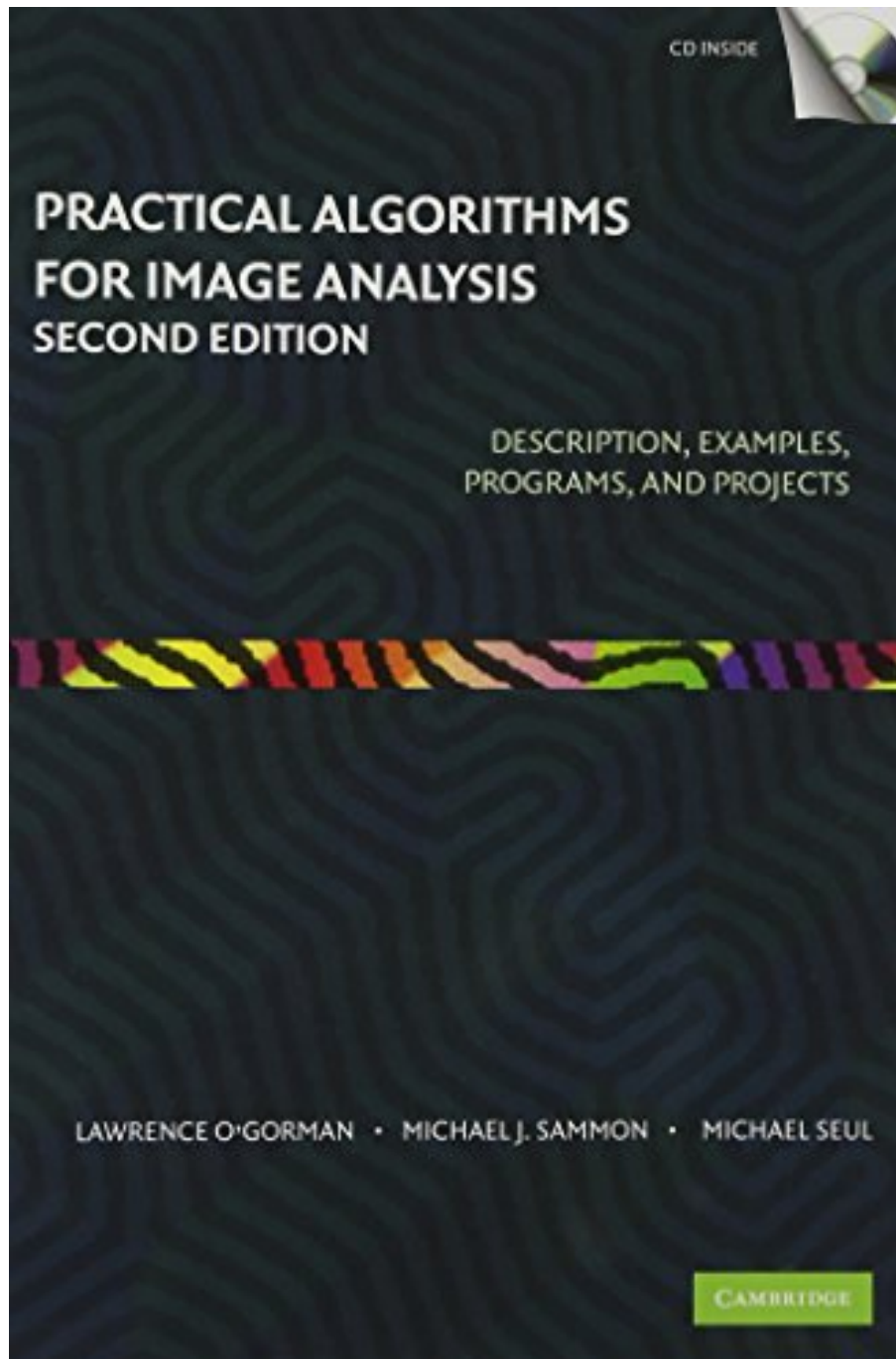


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Review

"New to the second edition of this well-designed textbook and reference are sections on Gabor filtering, thresholding by connectivity, and a chapter describing all the programs. The book's focus is on hands-on applications and includes a separate chapter of projects, many of them new to this edition, applying the processes described. The sections are grouped by operation and provide clear instruction on the procedure, with before and after images, keywords, specific applications, and related procedures. The various programs used for a procedure, such as global, gray-scale, or binary image analysis are each discussed in separate section, with programs provided accordingly. The CD-ROM contains C programs used in the procedures and executable with a graphic interface for Windows and Linux. Of the three authors, O'Gorman and Michael J. Sammon were both with Bell Laboratories and are now with Avaya Labs: Michael Seul, formerly of AT&T Bell Laboratories, is the founder of BioArray Solutions." --Book News

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In classic "cookbook style," this book offers guided access for researchers and practitioners to techniques for the digital manipulation and analysis of images, ranging from the simplest steps to advanced functions. Drawing on their long experience as users and developers of image analysis algorithms and software, the authors present a description and implementation of the most suitable procedures in easy-to-use form. Each self-contained section treats a single operation, describing typical situations requiring that operation and discussing the algorithm and implementation. Sections start with a "before" and "after" pictorial example and a ready-reference listing typical applications, keywords, and related procedures. This new edition has additional sections on Gabor filtering and on thresholding by connectivity, plus an expanded program listing and suggested projects for classroom use. And now the accompanying CD-ROM contains C programs not only as source code for carrying out the book's procedures but also as executables with a graphical user interface for Windows and Linux.

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- 360 pages

Features

- Used Book in Good Condition

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Most helpful customer reviews

7 of 7 people found the following review helpful.

More of a toolbox than a textbook

By calvinme

I already knew image processing when I bought this book, so I am not sure how it would appear to the novice seeking a textbook on the subject of image processing and analysis, but I imagine it could be somewhat confusing. I always recommend Gonzales and Wood's "Digital Image Processing" for those seeking a clear read on image processing and analysis from the ground up. Where Seul's book comes in is with clear descriptions and working code for many basic - and some not so basic - image processing and image analysis algorithms. The book is also very good at explaining the applications of the various transforms. One of the little things that the author of this book does that authors of other books similar to it don't bother to do is to realize that when you are working in image processing you likely have an image as an input and you want an image as an output. Thus the author has built his code libraries so that they work that way. You are not left with arrays of pixels that you have to figure out how to store and manage. In the end you have a nice functional toolbox of working image processing and analysis subroutines that you can chain together and make just about any type of image transform tool you could think of. I'm mainly interested in image effects, and I know this book has been useful to me. The accompanying CD-ROM contains all of the C source code for the algorithms so that you can port them to another language or tinker with them if you so desire. Highly recommended.

5 of 5 people found the following review helpful.

plug and play

By Arjan Kuijper

Searching for an easy plug & play solution for simple imaging tasks?

No time for programming & debugging things yourself?

No interest in crawling through literature to figure what & how you should program "the methods that solves all your problems"?

Here's a book that deals with most of the elementary - and most used - approaches in image enhancement and analysis. The CD offers a collection of ready-to-play-with programs, both in C source as in executables.

I appreciated the book set-up: each section describes one single task, describes the problem, gives an example, discusses a solution given in literature, and presents the input / output / options for the C code.

- If you want to know more: get the recommended references.
- If you want to modify the program: why not? (well, perhaps because the code is good enough!)
- If you don't care about the scientific background and/or programming: just plug & play!

4 of 4 people found the following review helpful.

Excellent book

By Z. Liu

As described on the cover page, this book is cookbook style so I went through the programs on the CD before reading the chapters. I like this book for two reasons.

First, the book is easy to read. A bunch of equations may not always be helpful to understand a problem. What confuses readers most is how an implementation/program corresponds to those equation(s). This book explains the image processing techniques in a plain language and gives you an hand-on experience with those techniques.

Second, to practice image processing, clicking a button on windows or just calling a built-in function, e.g. `process(image)`, will not be enough. When you go to the directory of programs on the CD, you may find out every details. Each program is relatively independent to each other. You will not be stuck by a function call, which you never know or find. Each program is well commented and can be easily modified and

incorporated into your program.

This book is good for those who are new to image processing, because it helps you understand what image processing does. It is also good for an experience practitioner, because you can find well-organized stuff to build your own applications. It is a must-have book for your shelf of image processing.

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