



Digital Image Processing: PIKS Scientific Inside

By William K. Pratt

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A newly updated and revised edition of the classic introduction to digital image processing

The Fourth Edition of *Digital Image Processing* provides a complete introduction to the field and includes new information that updates the state of the art. The text offers coverage of new topics and includes interactive computer display imaging examples and computer programming exercises that illustrate the theoretical content of the book. These exercises can be implemented using the Programmer's Imaging Kernel System (PIKS) application program interface included on the accompanying CD.

Suitable as a textbook for students or as a reference for practitioners, this new edition provides a comprehensive treatment of these vital topics:

- Characterization of continuous images
- Image sampling and quantization techniques
- Two-dimensional signal processing techniques
- Image enhancement and restoration techniques
- Image analysis techniques
- Software implementation of image processing applications

In addition, the bundled CD includes:

- A Solaris operating system executable version of the PIKS Scientific API
- A Windows operating system executable version of PIKS Scientific
- A Windows executable version of PIKSTool, a graphical user interface method of executing many of the PIKS Scientific operators without program compilation
- A PDF file format version of the PIKS Scientific C programmer's reference manual
- C program source demonstration programs
- A digital image database of most of the source images used in the book plus many others widely used in the literature

Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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Editorial Review

Review

"...one of the standard reference works in image processing." (*Computing Reviews.com*, June 6, 2007)

From the Publisher

Today, image processing has become a vital, cost-effective technology in a host of applications. This Second Edition covers these new developments in this dynamic field. Five sections explore the characterization of continuous images, image sampling and quantization techniques along with the mathematical representation of discrete images, two-dimensional signal processing techniques, image enhancement and restoration techniques and image analysis.

From the Back Cover

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Users Review

From reader reviews:

Deborah Hart:

Spent a free time and energy to be fun activity to accomplish! A lot of people spent their spare time with their family, or their own friends. Usually they accomplishing activity like watching television, planning to beach, or picnic from the park. They actually doing same every week. Do you feel it? Do you need to something different to fill your own personal free time/ holiday? Can be reading a book can be option to fill your free time/ holiday. The first thing that you'll ask may be what kinds of reserve that you should read. If you want to try look for book, may be the book untitled Digital Image Processing: PIKS Scientific Inside can be very good book to read. May be it might be best activity to you.

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