



# Digital Image Processing: PIKS Scientific Inside

By William K. Pratt

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**Digital Image Processing: PIKS Scientific Inside** By William K. Pratt

**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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