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Digital Image Processing: PIKS Scientific Inside

William K. Pratt

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Digital Image Processing: PIKS Scientific Inside William K. Pratt
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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 Scientic operators without program compilation
- A PDF file format version of the PIKS Scientific C programmer's reference manual
- C program source demonstration programs
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