



## The Essential Guide to Image Processing

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# The Essential Guide to Image Processing

## The Essential Guide to Image Processing

- A complete introduction to the basic and intermediate concepts of image processing from the leading people in the field
- A CD-ROM contains 70 highly interactive demonstration programs with user friendly interfaces to provide a visual presentation of the concepts
- Up-to-date content, including statistical modeling of natural, anisotropic diffusion, image quality and the latest developments in JPEG 2000

This comprehensive and state-of-the art approach to image processing gives engineers and students a thorough introduction, and includes full coverage of key applications: image watermarking, fingerprint recognition, face recognition and iris recognition and medical imaging. To help learn the concepts and techniques, the book contains a CD-ROM of 70 highly interactive visual demonstrations. Key algorithms and their implementation details are included, along with the latest developments in the standards.

*"This book combines basic image processing techniques with some of the most advanced procedures. Introductory chapters dedicated to general principles are presented alongside detailed application-orientated ones. As a result it is suitably adapted for different classes of readers, ranging from Master to PhD students and beyond." – Prof. Jean-Philippe Thiran, EPFL, Lausanne, Switzerland*

*"Al Bovik's compendium proceeds systematically from fundamentals to today's research frontiers. Professor Bovik, himself a highly respected leader in the field, has invited an all-star team of contributors. Students, researchers, and practitioners of image processing alike should benefit from the Essential Guide." – Prof. Bernd Girod, Stanford University, USA*

*"This book is informative, easy to read with plenty of examples, and allows great flexibility in tailoring a course on image processing or analysis." – Prof. Pamela Cosman, University of California, San Diego, USA*

- \* A complete and modern introduction to the basic and intermediate concepts of image processing – edited and written by the leading people in the field
- \* An essential reference for all types of engineers working on image processing applications
- \* A CD-ROM contains 70 highly interactive demonstration programs with user friendly interfaces to provide a visual presentation of the concepts
- \* Up-to-date content, including statistical modelling of natural, anisotropic diffusion, image quality and the latest developments in JPEG 2000

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