



Applied Medical Image Processing, Second Edition: A Basic Course

Wolfgang Birkfellner

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A widely used, classroom-tested text, **Applied Medical Image Processing: A Basic Course** delivers an ideal introduction to image processing in medicine, emphasizing the clinical relevance and special requirements of the field. Avoiding excessive mathematical formalisms, the book presents key principles by implementing algorithms from scratch and using simple MATLAB®/Octave scripts with image data and illustrations on an accompanying CD-ROM or companion website. Organized as a complete textbook, it provides an overview of the physics of medical image processing and discusses image formats and data storage, intensity transforms, filtering of images and applications of the Fourier transform, three-dimensional spatial transforms, volume rendering, image registration, and tomographic reconstruction.

This **Second Edition** of the bestseller:

- Contains two brand-new chapters on clinical applications and image-guided therapy
- Devotes more attention to the subject of color space
- Includes additional examples from radiology, internal medicine, surgery, and radiation therapy
- Incorporates freely available programs in the public domain (e.g., GIMP, 3DSlicer, and ImageJ) when applicable

Beneficial to students of medical physics, biomedical engineering, computer science, applied mathematics, and related fields, as well as medical physicists, radiographers, radiologists, and other professionals, **Applied Medical Image Processing: A Basic Course, Second Edition** is fully updated and expanded to ensure a perfect blend of theory and practice.

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