



# Biomedical Image Understanding: Methods and Applications (Wiley Series in Biomedical Engineering and Multi-Disciplinary Integrated Systems.)

*Joo-Hwee Lim, Sim-Heng Ong, Wei Xiong*

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**A comprehensive guide to understanding and interpreting digital images in medical and functional applications**

*Biomedical Image Understanding* focuses on image understanding and semantic interpretation, with clear introductions to related concepts, in-depth theoretical analysis, and detailed descriptions of important biomedical applications. It covers image processing, image filtering, enhancement, de-noising, restoration, and reconstruction; image segmentation and feature extraction; registration; clustering, pattern classification, and data fusion.

With contributions from experts in China, France, Italy, Japan, Singapore, the United Kingdom, and the United States, *Biomedical Image Understanding*:

- Addresses motion tracking and knowledge-based systems, two areas which are not covered extensively elsewhere in a biomedical context
- Describes important clinical applications, such as virtual colonoscopy, ocular disease diagnosis, and liver tumor detection
- Contains twelve self-contained chapters, each with an introduction to basic concepts, principles, and methods, and a case study or application

With over 150 diagrams and illustrations, this book is an essential resource for the reader interested in rapidly advancing research and applications in biomedical image understanding.



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