Computer-Assisted Analysis for Digital Medicinal Imagery

Part of the Advances in Medical Technology and Clinical Practice Book Series
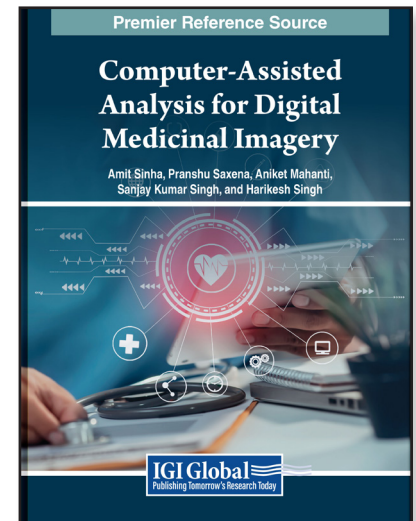
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Description:

The constantly evolving healthcare industry has experienced tremendous technological advancements that have significantly revolutionized medical imaging. However, with the increasing volume and complexity of medical image data, existing analysis methods must also be updated to be efficient and accurate. This is where the challenge lies—a need for a comprehensive solution that bridges the gap between cutting-edge technology and effective healthcare delivery.

Computer-Assisted Analysis for Digital Medicinal Imagery offers a roadmap for navigating the intricate landscape of digital medicinal imagery analysis. Unlocking the power of machine learning and breaking down the basics provides researchers, clinicians, and students with the tools necessary to harness technology and improve healthcare outcomes.

This book takes a holistic approach to tackling the challenges of digital medicinal imagery analysis, covering practical topics such as imaging modalities, machine learning applications, and emerging technologies. By equipping readers with the knowledge and tools needed to overcome these obstacles, it lays the foundation for a future where healthcare delivery is not just efficient, but transformative.

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Hardcover: $425.00   **E-Book:** $425.00   **Hardcover + E-Book:** $510.00

Topics Covered:

- Artificial Intelligence Integration
- Case Studies in Medicinal Imaging
- Challenges in Medicinal Imagery Analysis
- Computer-Assisted Analysis Fundamentals
- Deep Learning in Image Classification
- Digital Medicinal Imagery Analysis
- Emerging Technologies in Medicinal Analysis
- Ethical Considerations in Medicinal Analysis
- Feature Extraction in Medicinal Imagery
- Fundamentals of Medicinal Analysis
- Future Trends in Digital Medicinal Imagery
- Image Preprocessing Techniques
- Imaging Modalities in Medicinal Analysis
- Machine Learning Applications
- Validation Metrics in Medicinal Imaging

Subject: Medicine & Healthcare

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners