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## **Handbook of Medical Imaging - 1st Edition**

Albert Wong, S.L. Lou, in Handbook of  
Medical Imaging, 2000. 8 PACS Research  
Applications. Image processing applied  
to medical research has made many  
clinical diagnosis protocols and  
treatment plans more efficient and  
accurate. For example, a sophisticated  
nodule detection algorithm applied to  
digital mammogram images can aid in  
the early detection of breast cancer.

## **Image Processing - an overview | ScienceDirect Topics**

Modules of image processing. In general,  
image processing covers four main  
areas: image formation, visualization,  
analysis, and management. The  
algorithms of image enhancement can

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be assigned as pre- and post-processing  
in all areas optimization filtering  
calibration registration display  
illumination surface reconstr.. shading  
communication archiving compression

## **1 Fundamentals of Biomedical Image Processing**

In Handbook of Medical Image  
Processing and Analysis, Dr. Bankman  
has assembled a comprehensive  
summary of the state-of-the-art in image  
processing and analysis tools for  
diagnostic and therapeutic applications  
of medical imaging.

## **Handbook of Medical Image Processing and Analysis Academic**

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A little more than 100 years after the  
discovery of x-rays, this three-volume  
Handbook of Medical Imaging is  
intended to provide a comprehensive  
overview of the theory and current  
practice of Medical Imaging as we enter  
the 21st century. Volume I, which



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concerns the physics and the psychophysics of medical imaging, begins with a fundamental description of x-ray imaging physics and progresses to a review of linear systems theory and its application to an understanding of signal and noise ...

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