



Medical Image Analysis Methods (Electrical Engineering & Applied Signal Processing Series)

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To successfully detect and diagnose disease, it is vital for medical diagnosticians to properly apply the latest medical imaging technologies. It is a worrisome reality that due to either the nature or volume of some of the images provided, early or obscured signs of disease can go undetected or be misdiagnosed. To combat these inaccuracies, diagnosticians have come to rely on

applications that focus on medical image analysis. While there is a vast amount of information available on these procedures, a single-source guide that can comprehensively yet succinctly explain them would be an invaluable resource to have.

Medical Image Analysis Methods is that resource. It is an essential reference that details the primary methods, techniques, and approaches used to improve the quality of visually perceived images, as well as, quantitative detection and diagnostic decision aids. The book methodically presents this information by tapping into the expertise of a number of well-known contributing authors and researchers that are at the forefront of medical image analysis.

This comprehensive volume illustrates analytical techniques such as, computer-aided diagnosis (CAD), adaptive wavelet image enhancement, and data-driven optimized image segmentation and registration. Paradigms of the analysis methods used in bioinformatics and neurosciences are also provided in respective chapters. In addition, this reference reviews techniques that are used to evaluate these major medical-image processing and analysis methods.



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