Spinal Imaging and Image Analysis (Lecture Notes in Computational Vision and Biomechanics)

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This book is instrumental to building a bridge between scientists and clinicians in the field of spine imaging by introducing state-of-the-art computational methods in the context of clinical applications. Spine imaging via computed tomography, magnetic resonance imaging, and other radiologic imaging modalities, is essential for noninvasively visualizing and assessing spinal pathology. Computational methods support and enhance the physician’s ability to utilize these imaging techniques for diagnosis, non-invasive treatment, and intervention in clinical practice.

Chapters cover a broad range of topics encompassing radiological imaging modalities, clinical imaging applications for common spine diseases, image processing, computer-aided diagnosis, quantitative analysis, data reconstruction and visualization, statistical modeling, image-guided spine intervention, and robotic surgery.

This volume serves a broad audience as contributions were written by both clinicians and researchers, which reflects the intended readership as well, being a potentially comprehensive book for all spine related clinicians, technicians, scientists, and graduate students.

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