

## 图书基本信息

书名：《Medical Imaging and Augmented Reality 医学成像和现实》

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## 内容概要

This book constitutes the refereed proceedings of the Second International Workshop on Medical Imaging and Augmented Reality, MIAR 2004, held in Beijing, China, in August 2004. The 41 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 93 submissions. The papers are organized in topical sections on image processing, reconstruction, and coding; statistical and shape based segmentation; brain image analysis; cardiac modeling and segmentation; image registration; and surgical navigation and augmented reality.

## 书籍目录

Invited Contributions New Advances in MRI Segmentation of Focal Brain Lesions Imaging Support of Minimally Invasive Procedures Hands-On Robotic Surgery: Is This the Future? Image Processing, Reconstruction and Coding An Adaptive Enhancement Method for Ultrasound Images State Space Strategies for Estimation of Activity Map in PET Imaging Applying ICA Mixture Analysis for Segmenting Liver from Multi-phase Abdominal CT Images Extracting Pathologic Patterns from NIR Breast Images with Digital Image Processing Techniques Comparison of Phase-Encoded and Sensitivity-Encoded Spectroscopic Imaging Detection and Restoration of a Tampered Medical Image Efficient Lossy to Lossless Medical Image Compression Using Integer Wavelet Transform and Multiple Subband Decomposition Statistical and Shape Based Segmentation Geodesic Active Regions Using Non-parametric Statistical Regional Description and Their Application to Aneurysm Segmentation from CTA An Efficient Method for Deformable Segmentation of 3D US Prostate Images White Matter Lesion Segmentation from Volumetric MR Images Active Shape Model Segmentation Using Local Edge Structures and AdaBoost Segmental Active Contour Model Integrating Region Information for Medical Image Segmentation A Level Set Algorithm for Contour Tracking in Medical Images Robust Object Segmentation with Constrained Curve Embedding Potential Field Tracking Lumbar Vertebrae in Digital Videofluoroscopic Video Automatically Brain Image Analysis A New Algorithm Based on Fuzzy Gibbs Random Fields for Image Segmentation Improved Fiber Tracking for Diffusion Tensor MRI Rapid and Automatic Extraction of the Modified Talairach Cortical Landmarks from MR Neuroimages Brain MR Image Segmentation Using Fuzzy Clustering With Spatial Constraints Based on Markov Random Field Theory ..... Cardiac Modeling and Segmentation Image Registration Surgical Navigation and Augmented Reality Author Index

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