《Medical Image Comput》

图书基本信息

书名：《Medical Image Computing and Computer医学图像计算与计算机辅助介入 MICCAI 2005 /会议录，第I部分》

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内容概要

Based on rigorous peer reviews the program committee selected 237 carefully revised full papers from 632 submissions for presentation in two volumes. The first volume includes all the contributions related to image analysis and validation, vascular image segmentation, image registration, diffusion tensor image analysis, image segmentation and analysis, clinical applications - validation, imaging systems - visualization, computer assisted diagnosis, cellular and molecular image analysis, physically-based modeling, robotics and intervention, medical image computing for clinical applications, and biological imaging - simulation and modeling. The second volume collects the papers related to robotics, image-guided surgery and interventions, image registration, medical image computing , structural and functional brain analysis, model-based image analysis, image-guided intervention: simulation, modeling and display, and image segmentation and analysis.

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书籍目录

Image Analysis and Validation Classification of Structural Images via High-Dimensionai Image Warping, Robust Feature Extraction, and SVM Bone Enhancement Filtering: Application to Sinus Bone Segmentation and Simulation of Pituitary Surgery Simultaneous Registration and Segmentation of Anatomical Structures from Brain MR Synthetic Ground Truth for Validation of Brain Tumor MRI SegmentationVascular Image Segmentation Automatic Cerebrovascular Segmentation by Accurate Probabilistic Modeling of TOF-MRA Images A Segmentation and ReConstruction Technique for 3D Vascular Structures MRA Image Segmentation with Capillary Active Contour Spatial Graphs for Intra-cranial Vascular Network Characterization, Generation, and DiscriminationImage Registration Surface Alignment of 3D Spherical Harmonic Models: Application to Cardiac MRI Analysis Unified Point Selection and Surface-Based Registration Using a Particle Filter Elastic Registration of 3D Ultrasound Images Tracer Kinetic Model-Driven Registration for Dynamic Contrast Enhanced MRI Time Series Generalised Overlap Measures for Assessment of Pairwise and Groupwise Image Registration and SegmentationDiffusion Tensor Image Analysis Uncertainty in White Matter Fiber Tractography Fast and Simple Calculus on Tensors in the Log-Euclidean Framework 3D Curve Inference for Diffusion MRI Regularization Fiber Tract-Oriented Statistics for Quantitative Diffusion Tensor MRI Analysis White Matter Tract Clustering and Correspondence in Populations……Imaging Systems-VisualizationComputer Assisted DiagnosisCellular and Molecular Image AnalysisPhysically-Based Modeling Robotics and Intervention IMedical Image Computing for Clinical ApplicationsBiological Imaging -Simulation and Modeling IAuthor Index

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