

<<Medical Image Comput>>

图书基本信息

书名：<<Medical Image Computing and Computer-Assisted医学图像计算与计算机辅助介入 MICCAI 2005 /会议录，第II部分>>

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内容概要

The two-volume set LNCS 3749 and LNCS 3750 constitutes the refereed proceedings of the 8th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2005, held in Palm Springs, CA, USA, in October 2005. 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.

书籍目录

Robotics, Image-Guided Surgery and Interventions Sensor Guided Ablation Procedure of Left Atrial Endocardium A Method to Evaluate Human Spatial Coordination Interfaces for Computer-Assisted Surgery 3D TRUS Guided Robot Assisted Prostate Brachytherapy Invisible Shadow for Navigation and Planning in Minimal Invasive Surgery A Navigation System for Minimally Invasive CT-Guided Interventions Passive Markers for Ultrasound Tracking of Surgical Instruments Optimal Trajectories Computation Within Regions of Interest for Hepatic RFA Planning Effects of Latency on Telesurgery: An Experimental Study A Novel Phantom-Less Spatial and Temporal Ultrasound Calibration Method Electromagnetic Tracker Measurement Error Simulation and Tool Design Compact Forceps Manipulator Using Friction Wheel Mechanism and Gimbals Mechanism for Laparoscopic Surgery Spatial Motion Constraints for Robot Assisted Suturing Using Virtual Fixtures Contact Force Measurement of Instruments for Force-Feedback on a Surgical Robot: Acceleration Force Cancellations Based on Acceleration Sensor Readings Development of the Needle Insertion Robot for Percutaneous Vertebroplasty Laparoscope Self-calibration for Robotic Assisted Minimally Invasive Surgery A Hand-Eye Robotic Model for Total Knee Replacement Surgery Robot-Assisted Image-Guided Targeting for Minimally Invasive Neurosurgery: Planning, Registration, and In-vitro Experiment Soft-Tissue Motion Tracking and Structure Estimation for Robotic Assisted MIS Procedures
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