

<<Medical Simulation 医>>

图书基本信息

书名：<<Medical Simulation 医学模拟/会议录>>

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内容概要

This book constitutes the refereed proceedings of the International Symposium on Medical Simulation, ISMS 2004, held in Cambridge, MA, USA in June 2004. The 32 revised full papers presented were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on soft tissue properties and modeling, real-time deformable models, haptic rendering, anatomical modeling, and applications and development frameworks.

书籍目录

Soft Tissue Properties and Modeling Experimental Observation and Modelling of Preconditioning in Soft Biological Tissues The Effects of Testing Environment on the Viscoelastic Properties of Soft Tissues Comparison of Linear and Non-linear Soft Tissue Models with Post-operative CT Scan in Maxillofacial Surgery Characterization of Soft-Tissue Material Properties: Large Deformation Analysis Design, Development, and Testing of an Automated Laparoscopic Grasper with 3-D Force Measurement Capability A Finite Element Study of the Influence of the Osteotomy Surface on the Backward Displacement during Exophthalmia Reduction Liver Vessel Parameter Estimation from Tactile Imaging Information A Nonlinear Finite Element Model of Soft Tissue Indentation Indentation for Estimating the Human Tongue Soft Tissues Constitutive Law: Application to a 3D Biomechanical Model Comparison of Knee Cruciate Ligaments Models Using In-vivo Step Up-Down Kinematics Real-Time Deformable Models Multigrid Integration for Interactive Deformable Body Simulation A Suture Model for Surgical Simulation Real-Time Incision Simulation Using Discontinuous Free Form Deformation An Interactive Parallel Multigrid FEM Simulator On Extended Finite Element Method (XFEM) for Modelling of Organ Deformations Associated with Surgical Cuts Mechanical Representation of Shape-Retaining Chain Linked Model for Real-Time Haptic Rendering Interactive Real-Time Simulation of the Internal Limiting Membrane Haptic Rendering Haptic Display for All Degrees of Freedom of a Simulator for Flexible Endoscopy Surface Contact and Reaction Force Models for Laparoscopic Simulation A New Methodology to Characterize Sensory Interaction for Use in Laparoscopic Surgery Simulation A Study on the Perception of Haptics in Surgical Simulation Anatomical Modeling Applications and Development Frameworks Author Index

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