

<<生物医学模拟>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the Third International Symposium on Biomedical Simulation, ISBMS 2006, held in Zurich, Switzerland in July 2006. The 12 revised full papers and 11 poster papers presented were carefully reviewed and selected from 37 submissions. The papers are organized in topical sections on simulation of biophysical processes, systems and applications, and anatomical modeling and tissue properties.

书籍目录

Simulation of Biophysical Processes Computer Prediction of Friction in Balloon Angioplasty and Stent Implantation Real Time Simulation of Organ Motions Induced by Breathing;First Evaluation on Patient Data Efficient 3D Finite Element Modeling of a Muscle-Activated Tongue A 3-D Computational Model for Multicellular Tissue Growth Hierarchical Multi-resolution Finite Element Model for Soft Body Simulation Simulation of the Retroglossal Fluid-Structure Interaction During Obstructive Sleep Apnea Image Based Musculoskeletal Modeling Allows Personalized Biomechanical Analysis of Gait Real-Time Simulation for Global Deformation of Soft Tissue Using Deformable Centerline and Medial Representation The Framework for Real-Time Simulation of Deformable Soft-Tissue Using a Hybrid Elastic Model Systems and Applications A Flexible Framework for Highly-Modular Surgical Simulation Systems An Introduction to GPU Accelerated Surgical Simulation Simulation of Cardiac Activation Patterns for Checking Suggestions About the Suitability of Multi-lead ECG Electrode Arrays Simulation of the Continuous Curvilinear Capsulorhexis Procedure Annotated Surgical Manipulation for Simulator-Based Surgical Skill-Transfer Using SiRE-Simulation Record Editor Real-Time Area-Based Haptic Rendering for a Palpation Simulator New Methods for Video-Based Tracking of Laparoscopic Tools Anatomical Modeling and Tissue Properties Mechanical Characterization of the Liver Capsule and Parenchyma Parameter Optimisation of a Linear Tetrahedral Mass Tensor Model for a Maxillofacial Soft Tissue SimulatorAuthor Index

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