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During In Vivo Needle Insertions; A Software Framework for Surgical Simulation Virtual Environments

Augmented Assessment as a Means to Augmented RealityA Holographic Collaborative Medical Visualization System; Bounds for Damping that Guarantee Stability in Mass-Spring Systems; Bootstrapped Ultrasound Calibration; Combining High-Fidelity Human Patient Simulators with a Standardized Family Member: A Novel Approach to Teaching Breaking Bad News; Virtual Environment-Based Training Simulator for Endoscopic Third Ventriculostomy; Evaluation Methods of a Middleware for Networked Surgical Simulations; A Biomechanical Analysis of Surgeon's Gesture in a Laparoscopic Virtual Scenario

Smart Tool for Force Measurements During Knee Arthroscopy: In Vivo Human StudyFactors Affecting Targeting Using the Computer Assisted Orthopaedic Surgery System (CAOSS); Contouring in 2D While Viewing Stereoscopic 3D Volumes; Integrative Haptic and Visual Interaction for Simulation of PMMA Injection During Vertebroplasty; Flow Visualization for Interactive Simulation of Drugs Injection During Chemoembolization; The Use of a Computer Aided Design (CAD) Environment in 3D Reconstruction of Anatomic Surfaces

Simulating the Domain of Medical Modeling and Simulation: The Medical Modeling and Simulation DatabaseAssessing Cognitive & Motor Performance in Minimally Invasive Surgery (MIS) for Training & Tool Design; Virtual Patients: Assessment of Synthesized Versus Recorded Speech; Needle Artifact Localization in 3T MR Images; Robot-Assisted Needle Placement in Open-MRI: System Architecture, Integration and Validation; Polymer Film Based Sensor Networks for Non-Invasive Medical Monitoring; Detecting Trigger Points and Irreversibility Thresholds in Shock and Trauma

A Haptic VR Milling Surgery Simulator - Using High-Resolution CT-Data

Sommario/riassunto	The remarkable accomplishments of the IT industry and the Internet are trickling steadily into healthcare. This series provides more effective healthcare at a lower overall cost, driven by cheaper and better computers.