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Nota di contenuto	Title page; Preface; Conference Organization; Contents; Centerline-Based Parametric Model of Colon for Colonoscopy Simulator; New Tools for Sculpting Cranial Implants in a Shared Haptic Augmented Reality Environment; Reification of Abstract Concepts to Improve Comprehension Using Interactive Virtual Environments and a Knowledge-Based Design: A Renal Physiology Model; A Surgical and Fine-Motor Skills Trainer for Everyone? Touch and Force-Feedback in a Virtual Reality Environment for Surgical Training A Topologically Faithful, Tissue-Guided, Spatially Varying Meshing Strategy for the Computation of Patient-Specific Head Models for Endoscopic Pituitary Surgery SimulationDetermination of Face Validity for the Symbionix LAP Mentor Virtual Reality Training Module; Enhancing the Visual Realism of Hysteroscopy Simulation; The Surgical Simulation and Training Markup Language (SSTML): An XML-Based Language for Medical Simulation; Online Robust Model Estimation During In Vivo Needle Insertions; A Software Framework for Surgical

## Simulation Virtual Environments

Augmented Assessment as a Means to Augmented Reality

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 Study

Factors 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 Database

Assessing 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.