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Nota di bibliografia	Includes bibliographical references.
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  
A 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

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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.

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