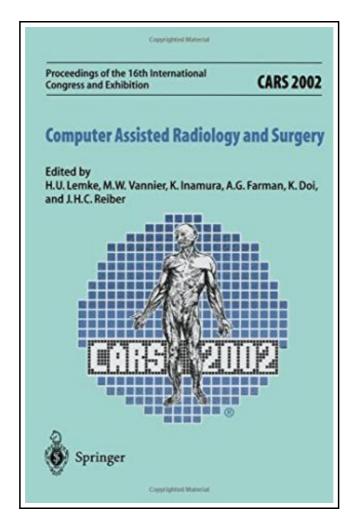
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Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 16th International Congress and Exhibition Paris, June 26-29,2002 | Progess in specific computer-assisted techniques (digital imaging, computeraided diagnosis, image-guided surgery, MEMS, etc.) combined with computer-assisted integration tools offers a valuable complement to or replacement for existing procedures in healthcare. Physicians are now employing PACS and telemedicine systems as enabling infrastructures to improve quality of and access to healthcare. Tools based on CAD and CAS facilitate completely new paths in patient care. To ensure that CARS tools benefit the patient, collaboration between various disciplines, specifically radiology, surgery, engineering, informatics, and healthcare management, is a critical factor. A multidisciplinary congress like CARS is a step in the desired direction of knowledge sharing and crossover education. It provides the necessary cooperative framework for advancing the development and application of modern computer-assisted technologies in healthcare. Towards patient specific, anatomy based simulation of facial mimics for surgical nerve rehabilitation.-Interactive simulation of the human hand.- Planning and training of minimally invasive surgery by integrating soft tissue cuts with surgical views reproduction.- An integrated system for maxillo-facial surgery simulation.-Towards functional simulation of soft tissue deformation for preoperative planning and postoperative evaluation.- Force feedback master arms, from telerobotics to robotics surgery training.- The generalized implementation of virtual instruments for surgical simulation.- Models of the human heart for simulation of clinical interventions.- Simulation of surgical interventions: atrial radio frequency ablation with a haptic interface.- An interaction model between multiple deformable objects for realistic haptic force feedback in surgical simulations.- Accuracy evaluation of a 3D ultrasound-based neuronavigation system.- Ultra-fast image registration embedded in intraoperative MR imaging.- A virtual environment for navigating and controlling intraoperative magnetic resonance images.- Collision avoidance in robot assisted surgery.- Single-step robot guided bone resection and individual reconstruction of the skull.- A novel...



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