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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 9365
Disciplina	006.6 006.37
Soggetti	Optical data processing Computer simulation Pattern recognition Computer graphics Algorithms Radiology Image Processing and Computer Vision Simulation and Modeling Pattern Recognition Computer Graphics Algorithm Analysis and Problem Complexity Imaging / Radiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	Foreword -- Ultrasound-Guided Navigation System for Orthognathic Surgery -- Ultrasound Image Overlay onto Endoscopic Image by Fusing 2D-3D Tracking of Laparoscopic Ultrasound Probe -- Interaction- based registration correction for improved augmented reality alignment in neurosurgery -- "On the Fly" reconstruction and tracking system for

Patient Setup in Radiation Therapy -- 3D Catheter Tip Tracking in 2D X-ray Image Sequences Using a Hidden Markov Model and 3DRA -- Human-PnP: Ergonomic AR interaction paradigm for manual placement of rigid bodies -- Real-time Markerless Respiratory Motion Management using Thermal Sensor Data -- An iterative closest point framework for ultrasound calibration -- Development of 4D human body model that enables deformation of skin, organ and blood vessel according to dynamic change -- Augmented Reality for Specific Neurovascular Surgical Tasks -- Layer Separation for Vessel Enhancement in Interventional X-ray Angiograms Using Morphological Filtering and Robust PCA -- Automatic guide-wire detection for neurointerventions using low-rank estimation and denoising -- 3D Surgical Overlay With Markerless Image Registration Using a Single Camera -- Simultaneous Estimation of Feature Correspondence and Stereo Object Pose with Application to Ultrasound Augmented Robotic Laparoscopy -- Patient adapted augmented reality system for real-time echocardiographic applications.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Workshop on Augmented Environments for Computer-Assisted Interventions, held in conjunction with MICCAI 2015, in Munich, Germany in October 2015. The 15 revised full papers presented were carefully reviewed and selected from 21 submissions. The objective of the AE-CAI workshop was to attract scientific contributions that offer solutions to the technical problems in the area of augmented and virtual environments for computer-assisted interventions, and to provide a venue for dissemination of papers describing both complete systems and clinical applications.

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