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Titolo	Augmented Environments for Computer-Assisted Interventions [[electronic resource]] : 6th International Workshop, AE-CAI 2011, Held in Conjunction with MICCAI 2011, Toronto, ON, Canada // edited by Cristian A Linte, John Moore, Elvis Chen, David Holmes III
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Descrizione fisica	1 online resource (XIV, 139 p. 80 illus.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 7264
Disciplina	004.2
Soggetti	Optical data processing Application software Artificial intelligence Computer graphics Image Processing and Computer Vision Computer Applications Artificial Intelligence Computer Graphics Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	2D/3D Registration of a Preoperative Model with Endoscopic Video Using Colour-Consistency. A Realistic Test and Development Environment for Mixed Reality in Neurosurgery -- Visual Search Behaviour and Analysis of Augmented Visualization for Minimally Invasive Surgery -- Augmented Reality Image Overlay Projection for Image Guided Open Liver Ablation of Metastatic Liver Cancer.-Tissue Deformation Recovery with Gaussian Mixture Model Based Structure from Motion -- Towards an Ultrasound Probe with Vision: Structured Light to Determine Surface Orientation -- Markov Modeling of Colonoscopy Gestures to Develop Skill Trainers.-Volume Visualization in the Clinical Practice CT-US Registration for Guidance of

Transcatheter Aortic Valve Implantation -- Enhanced Planning of Interventions for Spinal Deformity Correction Using Virtual Modeling and Visualization Techniques -- Alignment of 4D Coronary CTA with Monoplane X-ray Angiography -- VR Training System for Endoscopic Surgery Robot: Development of a System Enabling 4D Analysis of Surgical Technique Training -- Brain Parcellation Aids in Electrode Localization in Epileptic Patients.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Workshop on Augmented Environments for Computer-Assisted Interventions, held in conjunction with MICCAI 2011, in Toronto, Canada, in September 2011. The 13 revised full papers presented were carefully reviewed and selected from 21 submissions. The papers cover the following topics: image registration and fusion, calibration, visualisation and 3D perception, hardware and optical design, real-time implementations, validation, clinical applications and clinical evaluation.
