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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 7029
Disciplina	617.5/50754
Soggetti	Optical data processing Pattern recognition User interfaces (Computer systems) Computer graphics Radiology Image Processing and Computer Vision Pattern Recognition User Interfaces and Human Computer Interaction Computer Graphics Computer Imaging, Vision, Pattern Recognition and Graphics Imaging / Radiology Conference papers and proceedings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The Third International Workshop on Computational and Clinical Applications in Abdominal Imaging was held in conjunction with the 14th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI) on September 18, 2011, in Toronto, Canada"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Virtual Colonoscopy and CAD Inverse Consistency Error in the Registration of Prone and Supine Images in CT Colonography -- Dual- Energy Electronic Cleansing for Artifact-Free Visualization of the Colon

in Fecal-Tagging CT Colonography -- Computer-Aided Polyp Detection for Laxative-Free CT Colonography -- Comparative Performance of Random Forest and Support Vector Machine Classifiers for Detection of Colorectal Lesions in CT Colonography -- Image-Enhanced Capsule Endoscopy Preserving the Original Color Tones -- 3D Non-rigid Motion Correction of Free-Breathing Abdominal DCE-MRI Data -- Segmentation of Liver Tumor Using Efficient Global Optimal Tree Metrics Graph Cuts -- Ensemble Detection of Colorectal Lesions for CT Colonography -- Automated Detection of Colorectal Lesions in Non-cathartic CT Colonography -- Integration of Valley Orientation Distribution for Polyp Region Identification in Colonoscopy -- Automated Detection and Diagnosis of Crohn's Disease in CT Enterography -- Quantitative Evaluation of Lumbar Disc Herniation Based on MRI Image -- Liver Tumor Segmentation Using Kernel-Based FGCM and PGCM -- Abdominal Intervention Improving Diagnosis and Intervention: A Complete Approach for Registration of Liver CT Data -- Abdominal Images Non-rigid Registration Using Local-Affine Diffeomorphic Demons -- FIST: Fast Interactive Segmentation of Tumors -- Intraoperative Registration for Liver Tumor Ablation -- Sliding Geometries in Deformable Image Registration -- Simulation of Portal Vein Clamping and the Impact of Safety Margins for Liver Resection Planning -- Liver Segmentation in CT Images for Intervention Using a Graph-Cut Based Model -- Anatomical Feature-Guided Mutual Information Registration of Multimodal Prostate MRI -- Computational Abdominal Anatomy Abdominal Multi-organ Segmentation of CT Images Based on Hierarchical Spatial Modeling of Organ Interrelations -- Organ Segmentation from 3D Abdominal CT Images Based on Atlas Selection and Graph -- Liver Segmental Anatomy and Analysis from Vessel and Tumor Segmentation via Optimized Graph Cuts -- Liver and Tumor Segmentation and Analysis from CT of Diseased Patients via a Generic Affine Invariant Shape Parameterization and Graph Cuts -- A Bayesian Framework for Estimating Respiratory Liver Motion from Sparse Measurements.-Semi-automated Subcutaneous and Visceral Adipose Tissue Quantification in Computed Tomography -- Computation and Evaluation of Medial Surfaces for Shape Representation of Abdominal Organs -- Discontinuity Preserving Registration of Abdominal MR Images with Apparent Sliding Organ Motion -- Segmentation of Cervical Images by Inter-subject Registration with a Statistical Organ Model -- A New Method for Contour Determination of the Prostate in Ultrasound Images -- Analyses of Missing Organs in Abdominal Multi-Organ Segmentation -- Geometric Modelling of Patient-Specific Hepatic Structures Using Cubic Hermite Elements.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Computational and Clinical Applications in Abdominal Imaging, held in conjunction with MICCAI 2011, in Toronto, Canada, on September 18, 2011. The 33 revised full papers presented were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on virtual colonoscopy and CAD, abdominal intervention, and computational abdominal anatomy.
