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Nota di contenuto	A Model Development Pipeline for Crohn’s Disease Severity Assessment from Magnetic Resonance Images -- Spatially Constrained Incoherent Motion (SCIM) Model Improves Quantitative Diffusion-Weighted MRI Analysis of Crohn’s Disease Patients -- Self Similarity Image Registration based on Reorientation of the Hessian -- Registration of Prone and Supine CT Colonography Datasets with Differing Endoluminal Distension -- Spatial Correspondence between Prone and Supine CT Colonography Images: Creating a Reference Standard -- Registration of

Temporally Separated CT Colonography Cases -- A Classification-Enhanced Vote Accumulation Scheme for Detecting Colonic Polyps -- A Novel Computer Aided Detection (CADe) Scheme for Colonic Polyps Based on the Structure Decomposition -- Computer-aided Detection of Colorectal Lesions with Super-Resolution CT Colonography: Pilot Evaluation -- Computer-aided Detection of Non-polypoid Flat Lesions in CT Colonography: Observer Performance Study -- Application of Synthetic Sinogram based Low-Dose CT Simulation and Fold-preserving Electronic Cleansing Technique for CT Colonography -- Iterative Reconstruction for Ultra-Low-Dose Laxative-Free CT Colonography -- Global Colon Geometric Structure Analysis Based on Geodesics and Conformal Flattening -- Improved Colon Navigation for Efficient Polyp Detection in Virtual Colonoscopy -- Personalised Estimation of the Arterial Input Function for Improved Pharmacokinetic Modelling of Colorectal Cancer Using dceMRI -- Free-Form Registration Involving Disappearing Structures: Application to Brachytherapy MRI -- Contour-based TVUS-MR Image Registration for Mapping Small Endometrial Implants -- Rigid Registration of Untracked Freehand 2D Ultrasound Sweeps to 3D CT of Liver Tumours -- Multiphase Liver Registration from Geodesic Distance Maps and Biomechanical Modelling -- Fast Renal Cortex Localization by Combining Generalized Hough Transform and Active Appearance Models -- 3D Surface Reconstruction of Organs UsingPatient-Specific Shape Priors in Robot-Assisted Laparoscopic Surgery -- Multi-atlas and Gaussian Mixture Modeling based Perirectal Fat Segmentation from CT Images -- Selective Search and Sequential Detection for Standard Plane Localization in Ultrasound -- Rib Detection in 3D MRI Using Dynamic Programming Based on Vesselness and Ridgeness -- Modeling and Simulation of Soft Tissue Deformation -- Adaptive Confidence Regions of Motion Predictions from Population Exemplar Models -- A Generic, Robust and Fully-automatic Workflow for 3D CT Liver Segmentation -- Tumor Subtype-Specific Parameter Optimization in a Hybrid Active Surface Model for Hepatic Tumor Segmentation of 3D Liver Ultrasonograms -- Continuous-Time Flow-limited Modeling by Convolution Area Property and Differentiation Product Rule in 4-Phase Liver Dynamic Contrast-Enhanced CT -- Use of Tracer Kinetic Model-driven Biomarkers for Monitoring Antiangiogenic Therapy of Hepatocellular Carcinoma in First-pass Perfusion CT -- A Statistical Shape Model for Multiple Organs based on Synthesized-based Learning -- A Survey of Cervix Segmentation Methods in Magnetic Resonance Images.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Workshop CCAA 2013, held in conjunction with MICCAI 2013, in Nagoya, Japan, in September 2013. The book includes 32 papers which were carefully reviewed and selected from 38 submissions. The topics covered are abdominal atlases, shape analysis and morphology in abdominal structures and organs, detection of anatomical and functional landmarks, dynamic, functional, physiologic, and anatomical abdominal imaging, registration methods for abdominal intra- and inter-patient variability, augmented reality techniques for intervention, clinical applications in radio-frequency ablation, open surgery, and minimally invasive surgery.