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Nota di contenuto	An Open Source Multimodal Image-guided Prostate Biopsy Framework -- Breast Cancer Detection Using Haralick Features of Images Reconstructed from Ultra Wideband Microwave Scans -- Data-driven learning to detect characteristic kinetics in ultrasound images of arthritis -- COSMO - Coupled Shape Model for radiation therapy planning of head & neck cancer -- Automated Estimation of Aortic Intima-Media Thickness from Fetal Ultrasound -- Polyp Segmentation Method in Colonoscopy Videos by means of MSA-DOVA Energy Maps Calculation -- Generation of Patient-specific 3D Cardiac Chamber Models for Real-time Guidance in Cardiac Ablation Procedures -- Hierarchical shape mod ling of the cochlea and surrounding risk structures for minimally invasive cochlear implant Surgery -- Noninvasive Electrocardiographic Imaging of Cardiac Arrhythmias:

Enhance the Diagnosis of Bundle Branch Block -- Confidence Weighted Local Phase Features for Robust Bone Surface Segmentation in Ultrasound -- Evaluation of Electromagnetic Tracking for Stereoscopic Augmented Reality Laparoscopic Visualization -- Automatic lung tumor segmentation with leaks removal in follow-up CT studies -- Patient Specific Simulation for Planning of Cochlear Implantation Surgery -- Weighted Partitioned Active Shape Model for Optic Pathway Segmentation -- Longitudinal Intensity Normalization in Multiple Sclerosis Patients -- Spatial-Temporal Image-Constrained Lung 4D-CT Reconstruction for Radiotherapy Planning -- Simultaneous Multi-Phase Coronary CT Angiography Analysis for Coronary Artery Disease Evaluation -- Ultrasound-based Predication of Prostate Cancer in MRI-guided Biopsy -- Applying An Active Contour Model for Pre-Operative Planning of Transapical Aortic Valve Replacement.

Sommario/riassunto

This book constitutes revised selected papers from the Third International Workshop on Clinical Image-Based Procedures, CLIP 2014, held in conjunction with MICCAI 2014 in Boston, MA, USA, in September 2014. The 19 papers presented in this volume were carefully reviewed and selected from 26 submissions. New strategies are essential to ensure a smooth and effective translation of computational image-based techniques into the clinic. For these reasons CLIP 2014’s major focus is on translational research filling the gaps between basic science and clinical applications. A highlight of the workshop is the subject of strategies for personalized medicine to enhance diagnosis, treatment and interventions. Authors are encouraged to submit work centered on specific clinical applications, including techniques and procedures based on comprehensive clinical image data. Submissions related to applications already in use and evaluated by clinical users are particularly encouraged. The event will bring together world-class specialists to present ways to strengthen links between computer scientists and engineers, and clinicians.