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Nota di contenuto	Diffusion Imaging -- Diffusion Propagator Imaging: Using Laplace's Equation and Multiple Shell Acquisitions to Reconstruct the Diffusion Propagator -- Clustering of the Human Skeletal Muscle Fibers Using Linear Programming and Angular Hilbertian Metrics -- PET Imaging -- High-Resolution Adaptive PET Imaging -- Dynamic Dual-Tracer PET Reconstruction -- Image Registration -- DRAMMS: Deformable

Constraint -- Estimating the Confidence of Statistical Model Based Shape Prediction -- Oriented Morphometry of Folds on Surfaces -- Diffusion MRI Registration Using Orientation Distribution Functions -- Robust Joint Entropy Regularization of Limited View Transmission Tomography Using Gaussian Approximations to the Joint Histogram -- Cortical Correspondence with Probabilistic Fiber Connectivity -- A Variational Image-Based Approach to the Correction of Susceptibility Artifacts in the Alignment of Diffusion Weighted and Structural MRI -- Motion -- 4D MAP Image Reconstruction Incorporating Organ Motion -- Incorporating Patient Breathing Variability into a Stochastic Model of Dose Deposition for Stereotactic Body Radiation Therapy -- Segmentation and Validation -- Estimation of Inferential Uncertainty in Assessing Expert Segmentation Performance from Staple -- Detection of Arterial Calcification in Mammograms by Random Walks.

Sommario/riassunto

This book constitutes the refeered proceedings of the 21st International Conference on Information Processing in Medical Imaging, IPMI 2009, held in Williamsburg, VA, USA, in July 2009 The 26 revised full papers and 33 revised poster papers presented were carefully reviewed and selected from 150 submissions. The papers are organized in topical sections on diffusion imaging, PET imaging, image registration, functional networks, space curves, tractography, microscopy, exploratory analyses, features and detection, image guided surgery, shape analysis, motion, and segmentation and validation.