1. Record Nr. UNINA9910483072103321 Medical Computer Vision: Recognition Techniques and Applications in **Titolo** Medical Imaging: Second International MICCAI Workshop, MCV 2012, Nice, France, October 5, 2012, Revised Selected Papers / / edited by Bjoern Menze, Georg Langs, Le Lu, Albert Montillo, Zhuowen Tu, Antonio Criminisi Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, Pubbl/distr/stampa . 2013 3-642-36620-1 **ISBN** Edizione [1st ed. 2013.] Descrizione fisica 1 online resource (XI, 294 p. 136 illus.) Image Processing, Computer Vision, Pattern Recognition, and Graphics; Collana ; 7766 Disciplina 610.2856 Soggetti Optical data processing Health informatics Pattern recognition Application software Image Processing and Computer Vision **Health Informatics** Pattern Recognition **Computer Applications** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Includes bibliographical references and author index. Nota di bibliografia Nota di contenuto Real-Time 2D/3D Deformable Registration Using Metric Learning. - Groupwise Spectral Log-Demons Framework for Atlas Construction. - Robust Anatomical Correspondence Detection by Graph Matching with Sparsity Constraint -- Semi-supervised Segmentation Using Multiple Segmentation Hypotheses from a Single Atlas.- Carotid Artery Wall Segmentation by Coupled Surface Graph Cuts.- Graph Cut Segmentation Using a Constrained Statistical Model with Non-linear and Sparse Shape Optimization .- Novel Context Rich LoCo and GloCo Features with Local and Global Shape Constraints for Segmentation of 3D Echocardiograms with Random Forests.- Novel Vector-Valued

Approach to Automatic Brain Tissue Classification.- Atlas-Based

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Sommario/riassunto

Growth Model.- Current-Based 4D Shape Analysis for the Mechanical Personalization of Heart Models.

This book constitutes the thoroughly refereed workshop proceedings of the Second International Workshop on Medical Computer Vision, MCV 2012, held in Nice, France, October 2012 in conjunction with the 15th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2012. The 24 papers have been selected out of 42 submissions. At MCV 2012, 12 papers were presented as a poster and 12 as a poster together with a plenary talk. The book also features four selected papers which were presented at the previous CVPR Medical Computer Vision workshop held in conjunction with the International Conference on Computer Vision and Pattern Recognition on June 21 2012 in Providence, Rhode Island, USA. The papers explore the use of modern computer vision technology in tasks such as automatic segmentation and registration, localization of anatomical features and detection of anomalies, as well as 3D reconstruction and biophysical model personalization.