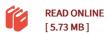




Computational Methods and Clinical Applications for Spine Imaging

By Vrtovec, Tomaz / Yao, Jianhua

 ${\bf Condition: New. \ Publisher/Verlag: Springer, Berlin \ | \ Third \ International \ Workshop \ and \ Challenge,}$ CSI 2015, Held in Conjunction with MICCAI 2015, Munich, Germany, October 5, 2015, Proceedings | This book constitutes the refereed proceedings of the Third International Workshop and Challenge on Computational Methods and Clinical Applications for Spine Imaging, CSI 2015, held in conjunction with MICCAI 2015, in Munich, Germany, in October 2015. The 9 workshop papers and 6 $\,$ challenge contributions were carefully reviewed and selected for inclusion in this volume. The papers cover all major aspects related to spine imaging. | Automated Pedicle Screw Size and Trajectory Planning by Maximization of Fastening Strength.- Automatic Modic Changes Classification in Spinal MRI.- Patient Registration via Topologically Encoded Depth Projection Images in Spine Surgery.- Automatic Localisation of Vertebrae in DXA Images Using Random Forest Regression Voting.- Robust CT to US 3D-3D Registration by Using Principal Component Analysis and Kalman Filtering.- Cortical Bone Thickness Estimation in CT Images: A Model-Based Approach Without Profile Fitting.- Multi-Atlas Segmentation with Joint Label Fusion of Osteoporotic Vertebral Compression Fractures on CT.- Statistical Shape Model Construction of Lumbar Vertebrae and Intervertebral Discs in Segmentation for Discectomy Surgery Simulation.- Automatic Intervertebral Discs Localization and Segmentation: A Vertebral Approach. - Segmentation of...



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