



International Journal of Biomedical Imaging

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International Journal of Biomedical Imaging
Volume 2007 (2007), Article ID 24826, 8 pages
doi:10.1155/2007/24826

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Research Article

A Context-Sensitive Active Contour for 2D Corpus Callosum Segmentation

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Received 15 June 2007; Revised 9 September 2007; Accepted 21 October 2007

Academic Editor: Guowei Wei

Abstract

We propose a new context-sensitive active contour for 2D corpus callosum segmentation. After a seed contour consisting of interconnected parts is being initialized by the user, each part will start to deform according to its own motion law derived from high-level prior knowledge, and is constantly aware of its own orientation and destination during the deformation process. Experimental results demonstrate the accuracy and robustness of our algorithm.