HYBRID SEGMENTATION OF THE HIPPOCAMPUS IN MR IMAGES (ThuPmOR2)

Author(s) :

Wei Wei Lee — (The Robert Gordon University, United Kingdom)
Iain Richardson — (The Robert Gordon University, United Kingdom)
Yafan Zhao — (The Robert Gordon University, United Kingdom)
Ken Gow — (The Robert Gordon University, United Kingdom)
Roger T. Staff — (University of Aberdeen, United Kingdom)

Abstract : Segmentation and visualisation of the hippocampus can assist with early detection and intervention for a number of brain diseases. This paper describes a semi–automatic segmentation approach that produces accurate results with a significant reduction in operator effort compared with manual segmentation. A Geometric Deformable Model incorporates global constraints to solve many of the problems associated with previous methods. The results of our hybrid segmentation model show a good correspondence with manual segmentation by an expert operator.

Menu