

3D shape prior active contours for an automatic segmentation of a patient specific femur from a CT scan

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ABSTRACT

Due to the patient's movements during the exam or, in the case of ultrasonography, the force used to press the device against the patient's body, the acquired images are subject to errors, most commonly known as, artifacts. On the other hand, in order to have high quality, trustworthy, representations of the segmented volume, the more resolution per slice has to be taken in account as well as a reduction in the distance between the slices which will induce a larger number of slices for the same segmentation volume. Therefore, the process of image segmentation and registration of a stack of medical images is computationally expensive and complex.