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**Youssef Qranfal\***, 550 Huntington Ave, Boston, MA 02115. *An Algorithm to Segment Noisy Medical Images.*

An implementation of a Markov random fields image segmentation algorithm works well for the purpose of denoising and segmenting medical images. One of the main contributions here is the ability for a user to manipulate online the image so as to achieve clear delineation of objects of interest in the image. Results are presented for images that are generated by SPECT and MRI. The method presented is effective at denoising as well as segmenting tissue types, organs, lesions, and other features of medical images. (Received September 16, 2019)