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(54) **METHODS AND SYSTEMS FOR SEGMENTING ORGANS IN IMAGES USING A CNN-BASED CORRECTION NETWORK**

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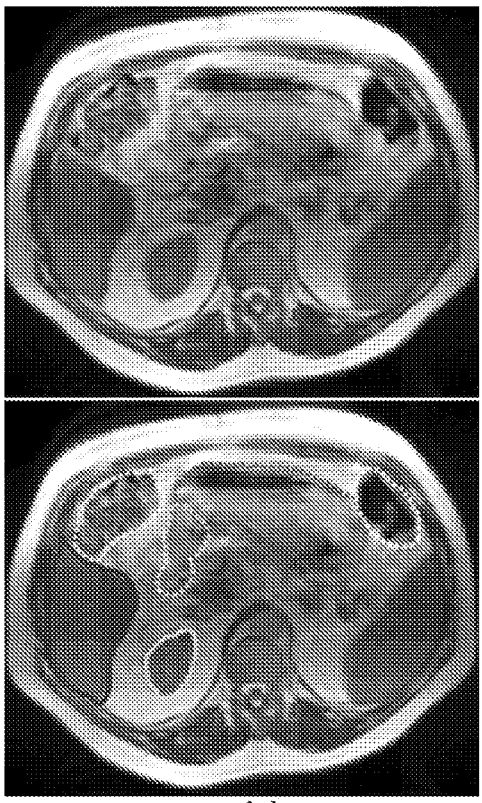
(57) **ABSTRACT**

Among the various aspects of the present disclosure is the provision of methods and systems for segmenting images and expediting a contouring process for MRI-guided adaptive radiotherapy (MR-IGART) comprising applying a convolutional neural network (CNN), wherein the CNN accurately segments organs (e.g., the liver, kidneys, stomach, bowel, or duodenum) in 3D MR images.



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