AUTOMATED METHOD FOR CLASSIFYING LIVER FIBROSIS STAGES USING ULTRASOUND B-MODE IMAGES

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ABSTRACT

In this work, we propose a fully convolutional network architecture to maximize the liver fibrosis classification accuracy with limited small amount of ultrasound B-mode image datasets. Some numerical experiments are conducted on real ultrasound B-mode images. The experimental results support that the performance of the proposed architecture is much better compared to the transfer learning using the pre-trained model of VGGNet.

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