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(57) Abstract :

ABSTRACT A DEVICE FOR AUTOMATIC SCHIZOPHRENIA DISEASE DETECTION USING FMRI IMAGES AND METHOD THEREOF The present invention relates to the field of artificial intelligence in healthcare monitoring. Particularly, the present invention relates to the design, development, and deployment of a representation-based learning system for the automatic detection of schizophrenic patients using pre-processing of fMRI images. The representation based learning system of the present invention incorporates an fMRI monitoring system operatively coupled with an artificial intelligence based controller having a FPGA based processor embedded with a convolutional neural network module. Figure 1

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