

(54) Title of the invention : A REPRESENTATION-BASED LEARNING SYSTEM FOR DIABETES DETECTION USING ECG SIGNAL AND A METHOD THEREOF

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(57) Abstract :

ABSTRACT A REPRESENTATION-BASED LEARNING SYSTEM FOR DIABETES DETECTION USING ECG SIGNAL AND A 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 diabetic patients using time-frequency (T-F) spectrograms of electrocardiogram (ECG) signals. The representation based learning system of the present invention incorporates an electrocardiogram ECG monitoring sensor operatively coupled with an artificial intelligence based controller having a processor embedded with a convolutional neural network module. Figure 1

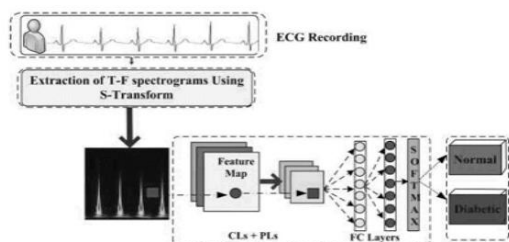


Figure 1

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