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(57) Abstract :

SYSTEM AND METHOD FOR REMOTE ECG MONITORING AND DISEASE CLASSIFICATION The present disclosure relates to a system for detecting heart rate condition including a device configured to be worn by the individual and to sense heart rate of the individual and correspondingly generate a first set of signals pertaining to the heart rate of the individual. A processing unit operatively configured with the device, includes a memory associated with the processing unit for storing instructions which when executed cause the processing unit to receive, from the device, the first set of signals. Extract features from the first set of signals and correspondingly generate a second set of signals. Save the first set of signals and the second set of signals in the training and testing datasets associated with the processing unit. Validate, using deep learning technique, the time domain and amplitude domain extracted feature and correspondingly generating a third set of signals pertaining to heart rate condition of the individual.

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