Abstract

Electrocardiography (ECG) is a popular technique that is widely used to detect cardiac problems. One of the difficulties in developed countries is the lack of the number of specialists in heart diseases compared with the number of patients. Another problem is the high cost of ECG devices and medical services. This work helps to minimise the effects of these problems by development of a low cost ECG that can register and analyse the ECG signal of the patient. The ECG graph and the analysed data are sent to a remote expert for diagnosis by utilising diverse of communication technologies. In this work, the Internet is used as a low price and widely available technology. The history of the patient records is also stored in a cloud server. So the solution is characterized by being cheap, easy to use, and efficient for remote usage.


Index Terms

Computer Science  Signal Processing

Keywords
ECG Analysis, Arduino, LabVIEW & IOT