Abstract

With heart diseases, and associated complications, being one of the major causes of death around the world, and in spite of decreased mortality rate, detection of irregularities in the rhythms of the heart is a growing field in medical research. Extended patient monitoring during normal activity has become increasingly important as a standard preventive cardiological procedure for detection of cardiac conditions. This paper presents a development platform for portable real-time analysis of ECG signals which can be used as an advanced warning device, using android based mobile phone. This paper briefly discusses an ECG data capture unit, with an emphasis on the software for analyzing the ECG signals, and the algorithm of analyzing and
detecting cardiac conditions for 'Tachycardia' type – the most common kind of cardiac abnormality.

References


Index Terms

Computer Science
Emerging Trends in Technology

Keywords
Mhealth Ehealth Telemedicine Telemetry Android Smartphone Ecg