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| **Title:** | Design, Development and Performance Analysis of a Low-Cost Health-Care Monitoring System using an Android Application | | |
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| **Abstract:** |  |
| Cardiovascular disease (CVD) patients need continuous monitoring of bio-signals and regular hospital visit to improve health conditions. A portable health monitoring device can provide continuous monitoring of chronic diseases. In this paper, a low-cost health monitoring system is introduced to observe Electrocardiogram (ECG), body temperature and heart-beat. This research illustrates the use of android smartphone and Android applications to process and visualize the ECG signal, heart rate, and temperature. An android application is developed to monitor, store and share this biomedical signal data with an expert to get the fastest treatment. The system can also store the previous data to observe patient's history easily whenever necessary. The design strategy, experimental data with android apps, smartphone synchronization, real-time monitoring have been presented in this paper. The prototype can be utilized to control heart diseases for the people in the underdeveloped area. | |