Abstract

Wireless Networks have been dominating in the present world in almost all the domains and departments especially in the medical field. This work gives the scenario of implementation of
wireless transmission of biomedical signal, ECG (Electrocardiogram) in particular using the methods of Angle Modulation viz., Frequency Modulation and Phase Modulation. The ECG signal is acquired using the ECG Amplifier circuit and then it is transmitted using the Angle Modulation. However the transmission is Simulated rather than the hardware transmission which gives the idea of implementing in the real world application. The validation of faithful transmission is done using the parameter of ECG waveform i.e., amplitude and frequency. Also for patients in rural, regional and remote areas an ECG report could be sent via email or LAN to a doctor for examination. An added advantage is economically feasibility which is the main concern in the medical field [1].

Reference

- Johan Coosemans, Bart Hermans, Robert Puers “Integrating wireless ECG monitoring in

Index Terms

Computer Science
Signal Processing

Key words
Angle Modulation Bradycardia ECG
Frequency Modulation
Phase Modulation
Simulation
Tachycardia