

عنوان مقاله:

The Use of Inexpensive Cell Phones in Telemedicine

محل انتشار:

پنجمین کنفرانس بین المللی پیشرفت های علوم و تکنولوژی (سال: 1390)

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خلاصه مقاله:

The modern world has seen an increase of life expectancy through the progress made in the fields of hygiene and health. The increase in the life expectancy of the society and the presence of the senile will cause problems related to old age. The present article tries to provide a new strategy for transmitting patient's vital data to the monitoring station. The new strategy is characterized with low costs and simplicity of use. The patient's vital signals will be modulated in independent frequencies, merged and then placed on a cell phone voice channel. The allocated frequency channels have a bandwidth of 1.5 KHz and thus provide a theoretically good margin of safety for meeting the condition of lack of frequency overlapping. Finally, the signals will be demodulated and displayed using AM demodulators in the receiver.

کلمات کلیدی:

Telemedicine, Cell Phone, ECG, PPG

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