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Abstract
In this paper, we apply the wireless communication technologies to implement an automatic physiological parameters monitoring and accessing information systems for remote patients. A Personal Digital Assistant (PDA) with wireless communication interfaces (for example, Bluetooth, IEEE 802.11b WLAN, GPRS and GPS) was adopted to combine LabVIEW (Laboratory Virtual Instrument Engineering Workbench) software to design this system. The proposed system can connect with the hospital information system and thus provide remote patients' physiological parameters in time by using wireless communication technologies. Using this implemented system, doctor can analyze and record the patient's biomedical data remotely in a proper time. Under the very competitive medical industry environment, the hospitals have to improve their service quality. In this case, our system is especially useful in the interactive out-patient service (through Internet phone), emergency call and urgent rescue (locating the patient's position through the GPS). Therefore our system can help the hospital not only in promoting the medical treatment quality and efficiencies but also in raising patient's satisfaction indirectly.
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