

基于WBAN的智能康复监测护理系统设计和实现

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摘要：

针对传统生理参数监测的不足，基于无线体域网（WBAN）设计并实现了用于康复训练的智能康复监测护理系统。本文首先采集心电、皮肤电阻、脉搏和体温信号，然后通过Crossbow无线传感器网络平台将检测到的数据实时传输到上位机，最后在上位机上实时显示和监控。文中详细介绍了系统的软、硬件设计，并对实验结果进行了处理和分析，实验结果表明该系统能对患者的

关键词：WBAN；生理参数采集；康复训练；实时监控

Physiological parameters detecting and motoring system design for rehabilitation training ba

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Abstract:

A physiological parameters detecting and motoring system based on wireless body area network (WBAN) is designed to solve the problem of traditional physiological parameter monitoring system. Firstly, electrocardiogram (ECG), pulse, skin resistance and body-temperature parameter nodes. Then, multi-physiological parameters information is transmitted by means of WBAN constructed on the Crossbow wireless sensor network platform. Finally, physiological parameters profiles are displayed via graphical user interface. Experiments conducted on health subjects show that the system can monitor human psychological parameters in real time.

Keywords: WBAN; physiological parameters detecting and motoring; rehabilitation training

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