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### **RESEARCH ARTICLE**

# **Intelligent Monitoring of Patients in Hospitals Using CAN Protocols and ARM7TDMI Processor**

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### **Abstract**

*In a hospital the monitoring of multiple patients constantly is a major issue if patient is not in intensive care unit. This paper presents a monitoring system that has the capability to monitor physiological parameters from multiple patient bodies and alarm the doctors if the patient's physiological parameters go beyond critical values. In the proposed system, a Electronic Control Unit has attached near patient body to collect all the physiological parameters and sends them to the base station. The attached sensors on patient's body are able to sense the heart rate, blood pressure and so on. This system can detect the abnormal conditions, issue an alarm to the patient and send a SMS to the physician. The main advantage of this system in comparison to previous systems is to reduce the energy consumption to prolong the network lifetime, speed up and extend the communication coverage to increase the freedom for enhance patient quality of life. We have developed this system in multi-patient architecture for hospital healthcare.*

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499a84.pdf>