An Innovative Approach for Infant Monitoring System using Pulse Rate and Oxygen Level

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 160

Number 5

Year of Publication: 2017

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10.5120/ijca2017913053

Abstract

Monitoring health parameters of newborns such as respiration patterns, oxygen level, sleep activity etc. is necessary to ensure salubriousness of their health. A conventional approach does not efficiently provide the real-time updates of these baby health parameters. Also, this approach avails parents to constantly monitor the parameters of a baby to ensure their health. As both parents nowadays, work outside and it is not always possible to monitor the baby in-person, it is necessary to make use of modern technologies. It will be beneficial for the parents to readily track the health of the infant and getting updates in detrimental conditions. Also, the parents could be equipped with the suggestions about preventive measures which should be taken at the given time. To detect any unfavorable condition of the baby, the monitoring parameters are compared with the normal or under control parameters. Whenever parameter rises above the threshold, parents are informed.

References
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Index Terms

Computer Science Information Sciences

Keywords

Android Mobile, Arduino board, Bluetooth, Cloud, Microprocessor, Short Messaging Service, Global System for Mobile, Sudden Infant Death Syndrome.