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(57) Abstract :

ABSTRACT HOME ANALYSIS FETAL HEART RATE MONITORING AND KICKING MEASUREMENT USING EMBEDDED AND IOT This invention is a system and method of fetal heart rate monitoring and kicking measurement using embedded and IoT. This is achieved by the use of a fetal digital stethoscope sensor, an EMG sensor and a MEMS sensor. These three sensors are placed on the abdomen of a pregnant lady wherein the fetal digital stethoscope sensor fetches the fetal heart rate, the EMG sensor detects fetal muscle movement and the MEMS sensor detects the fetus kicking. The sensors transmit the signals to an amplifier which amplifies the signals and transmits to a microcontroller, which processes and transmits the processed data to a mobile phone as a thing of IoT.

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