SYNOPSIS

IoT BASED HEALTH MONITORING IN SMART HOME SYSTEM

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The number of patients seeking treatment is always on the rise, while hospitals are providing treatment with specialized medical facilities and nursing staffs. With the advent of Internet of things and its applications patient can choose the place of treatment based on the convenience. By making use of advances in IoT, hospitals can provide patients with monitoring system for supervision without the need of separate medical expert for each patient. This work recommends a health monitoring system which has a vigilance on the emotion of the patient to detect pain through facial expressions while continuously checking for vitals in a cost effective manner. Although images are used for ensuring safety, a very little use of it has been found in the field of health monitoring.With images helping out medical experts to know the feelings of the patient providing them a more concentrated care in cost effective manner, IoT enabled embedded hardware based health monitoring system with camera interface is proposed and implemented in this work.

KEY WORDS: Internet of Thing, Raspberry Pi, Emotion recognition, health monitoring.

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