Abstract

The work has been inspired by the need to find an efficient method for detecting internal disorders of body organs (heart) using optical sensor which is simple and the comparatively newer. The initial task is to gather the ideas and modify them. In this work an idea has been given to detect the internal disorder of heart by using the reflection and refraction of optical sensor and ECG. An optical sensor has been used as a detector which collects the initial signals and two parallel glasses to show the refraction of light and ECG to see output. In this process the data of internal part of body can be easily found. Using some equations and data the disorders and disabilities can be observed. Some data has been generated for healthy parts of body and disordered parts. The differences of obtained data show the effective result of this work. Data obtained from electrocardiogram (ECG) signals provides invaluable tools for diagnosing cardiac disorders.
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Index Terms

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