

A Method for Warning with Visually Impaired People Using the Vibrational Technology in Smart Phones

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Visually impaired people are the ones who are unable to read the world and they are facing more troubles when using modern technologies such as smart devices (Mobile devices, Smart phones). When using mobile devices, sometimes they will not be able to identify important messages such as news alerts. But with the help of modern technologies such as word analyzing using Natural Language Processing it has become possible to track those messages. Modern mobile devices are powerful and have more processing power and those are embedded with technologies such as vibration technology, sensors, and Powerful cameras. Most visually impaired people are not much interested in using mobile phones because there are no proper mechanisms that fit them. If using a method like reading the messages louder, that could be useful because they can hear properly. But that can affect the privacy of those people. If we can use vibrate technology for communication, it can be more effective for those people because they can feel the pattern easily. If they receive an emergency notification, such as a natural disaster, they would be able to identify the message by analyzing the vibrate patterns. This research has used the vibrating technology in smart phones to inform about some emergency messages to visually impaired people. An inbuilt analyzing model will help to filter some messages that are not dangerous and then the most wanted and informative messages will be given as Morse code pattern, and it will help to maintain the lifetime of the vibration motor. By analyzing the vibrate pattern with the aid of Morse code the visually impaired people can identify whether the message is a dangerous one or not. So, this will be very useful for those people because they can get informed about the important information mainly regarded to their safety

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