Combination of Speech Recognition with Lip, Face and Body Features for Having Transparent Messages from Patients

In this paper the aim is to enhance the performance of quality of tele medicine by accurate detection from patient’s situations with the aid of some tools such as smart phones which are portable and easy to use. The most important missions of these accessories in ehealth care are to recognize signs of diseases either in short time or in correct diagnosis. Over the last decades many researchers have used Speech Recognition (SR) for transferring patient’s messages, but due to existence of noise in environment or some drawback in ability of patients in talking, they have combined SR with lip reading for having a clear messages, finally the success rate became about 89% while it is far from 100%. This paper represents the novel technique by combination of SR with Lip, Face and Body properties or motions. This approach is not restricted to lip reading; it can go over these borders and extend it to a wide area for having transparent messages. All Parts of body convey vital information, head and hand movement, eyebrow frown or even static signs like face color shows body temperature and lip color says content of oxygen.

Keywords:
Speech Recognition, Lip Reading, Image Recognition, E health.

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