Diagnosing Alzheimer’s Disease

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Abstract

Alzheimer’s is the most common type of dementia, which results in a restriction of daily activities. There are many attempts been made to provide an accurate diagnosis; however, most of them are less relevant for Sri Lankan context and are expensive to be used by the general public. According to Lanka Alzheimer’s Foundation most of the victims are elderly and is less conversant in English. Since this disease effects the functioning of the brain, coming up with an early diagnosis process will be beneficial to the community. This research focuses on proposing diagnosis tool for Alzheimer’s at the early stages and specifically designed to be used in Sri Lankan context as a low cost solution. The proposed application is a web-based tool capable of navigating using local languages such as Sinhala and Tamil. In order to increase the accuracy of the application the diagnosis process focuses on four types of Alzheimer’s disease. Namely; Agnosia, Apraxia, Amnesia and Aphasia. System is able to determine the type of Alzheimer’s suffered by the individual with the severity of the disease and assist the doctor in the treatment plans proposed. This research will be a stepping stone for delaying the
progression of the disease.

References


Index Terms

Computer Science

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Keywords

Diagnosing Alzheimer’s, Memory disease, Health informatics, Dementia, Brain degeneration