New Approach for Clinical Decision Support System of Alzheimer’s Disease Diagnosis

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Abstract

Alzheimer’s disease is a chronic dementia. It destroys gradually the memory and get worse over time. The diagnosis of AD is generally made very late. The great challenge is reaching an early and accurate diagnosis. In this case, a Clinical Decision Support System (CDSS) to help physicians diagnose AD and related disorders: mild cognitive impairment (MCI) and Dementia (D) is proposed. The originality of the idea is that many parameters are included such as cognitive test scores, neurological, biological, clinical and demographic data and this is in order to carry on the most accurate diagnosis for every subject. The Support Vector Machine showed that the proposed CDSS decision model achieves good performance.

References

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Index Terms

Computer Science

Artificial Intelligence

Keywords
Alzheimer’s disease (AD), Dementia, Clinical Decision Support System (CDSS), cognitive test