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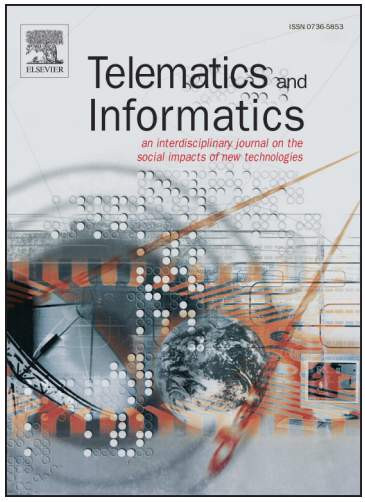

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PII: S0736-5853(16)30501-9
DOI: http://dx.doi.org/10.1016/j.tele.2017.04.008
Reference: TELE 935

To appear in: *Telematics and Informatics*

Received Date: 11 October 2016
Revised Date: 8 April 2017
Accepted Date: 23 April 2017

Please cite this article as: Pinheiro, P.R., Tamanini, I., Dantas Pinheiro, M.C., de Albuquerquem, V.H.C., Evaluation of the Alzheimer's Disease Clinical Stages under the Optics of Hybrid Approaches in Verbal Decision Analysis, *Telematics and Informatics* (2017), doi: http://dx.doi.org/10.1016/j.tele.2017.04.008

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Evaluation of the Alzheimer's Disease Clinical Stages under the Optics of Hybrid Approaches in Verbal Decision Analysis

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Abstract: The Decision Making process is present in every moment of personal life, but other decisions need a further analysis of a considerable number of factors is involved. The impact of each decision is analyzed mainly from two points of view, being one for it and one against it. It is intended to determine in this research which of the tests are relevant and would detect whether the patient is developing the early diagnosis of diseases like Alzheimer's. The tests should be applied in two stages. Initially, a classification method will be implemented to determine which questionnaires from a set would, themselves, detect the Alzheimer's disease. After, the questionnaires classified as the ones that would give this diagnosis will be ordered by means, from the most likely one to lead to the diagnosis faster, to the least, considering an ordination methodology. This paper presents a hybrid model for the early diagnosis of Alzheimer's disease by applying methods of Verbal Decision Analysis structured considering the methods ARACE and NORCLASS.

Keywords: Decision Support Systems, ARACE, NORCLASS, Verbal Decision Analysis, Alzheimer's Disease, Computer Aided Diagnosis

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