

阿茲海默症評估系統

Alzheimer's Disease Assessment System

陳佳如、李錫智、劉景寬、周美鵬、塗景盛
 Sharon Chia-Ju Chen, Shie-Jue Lee, Ching-Kuan Liu, Mei-Chuan Chou, Ching-Sheng Tu

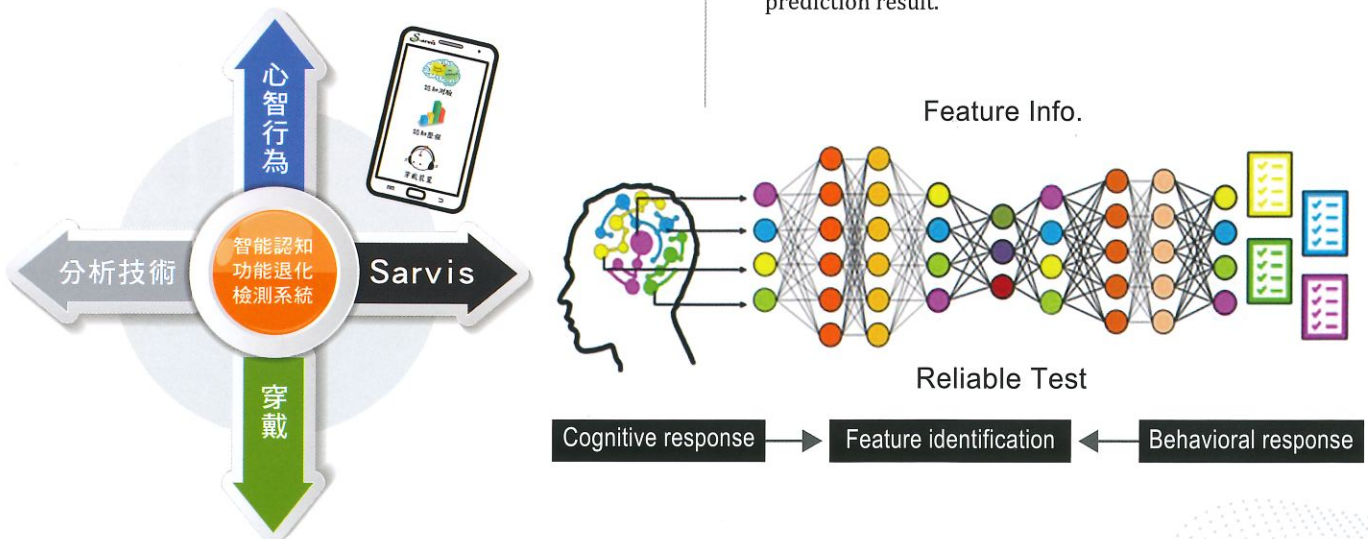
技術摘要

阿茲海默症評估系統可用以解決習知無法精準診斷阿茲默症的問題，包含：

1. 資料擷取模組用，以取得數個受測者各自的檢驗樣本。
2. 資料預處理模組，用以對該數個檢驗樣本執行資料預處理，以產生乾淨數據。
3. 特徵擷取模組，用以由該乾淨數據中取得至少一重要特徵數據。
4. 資料降維模組，用以對各該至少一重要特徵數據進行降維，以產生訓練資料。
5. 處理器模組，將該訓練資料作為一類神經分類器的訓練集，以建立阿茲海默症預測模型，將待檢測檢驗樣本輸入至該阿茲海默症預測模型以產生預測結果，輸出模組輸出該預測結果。

An Alzheimer's Disease Assessment System is used to solve the problem that conventional knowledge is unable to accurately diagnose Alzheimer's disease. The system includes the following,

a data acquisition module to obtain the test sample of each subject,
 a data preprocessing module to perform data preprocessing on the test samples to generate clean data,
 a feature extraction module for obtaining at least one important feature data from the clean data,
 a data dimensionality reduction module for reducing the dimensionality of respective data and at least one important feature data to generate the training data,
 a processor module that uses the training data as a training set of neural networks to develop an Alzheimer's Disease prediction model. An input of the test sample is imported to the Alzheimer's Disease prediction model to generate the prediction result, and an output module to export the prediction result.



系統發展概念圖

應用範圍

1. 醫療器材、軟體
2. 體外診斷醫材

相關專利

中華民國(TW)：109127376