

# **Regression and Classification of Alzheimer's Disease Diagnosis Using NMF-TDNet Features From 3D Brain MR Image**

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## **METHODS:**

- 1.NMF-TDNet
- 2.Regression and Classification.

## **DATASETS:**

ADNI-1, ADNI-2 and OASIS datasets.

## **CONCLUSION:**

To overcome the large number of features and the data dependence of the PCA filters that limit PCANet, a method named NMF-TDNet based on the network structure of PCANet is proposed.

The experimental results show that although NMF-TDNet yields far fewer features than PCANet, using NMF-TDNet features as input achieved superior performance than using PCANet features as input.