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#### GENERAL INFORMATION

Aim of the software: Classification of Alzheimer's Disease Stages via Integration of Different Data Modalities

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#### SHARING/ACCESS INFORMATION

Licenses/restrictions placed on the software: CC-BY

Recommended citation for this software:

- [1] L. Maddalena, I. Granata, M. Giordano, M. Manzo, M.R. Guarracino  
Integrating Different Data Modalities for the Classification of Alzheimer's Disease Stages,  
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#### SOFTWARE OVERVIEW

The software consists of four MATLAB scripts:

- 1) "MainForBestResults.m" is an example of use. It reproduces Table 3 of [1].
- 2) "EvaluationProcedure.m" implements the evaluation procedure described in [1].
- 3) "funModelFit.m" constructs the chosen fitting function.
- 4) "ClassificationMetrics.m" computes the metrics (Acc, Sens, Spec, Prec, F-measure, G-mean, AUC, MCC).

See [1] and the internal documentation of each script for more details.

#### DATA OVERVIEW

Features obtained by ANMerge data are included into two subfolders of folder ANMfeats:

- 1) "ANM\_GE" includes features extracted from transcriptomics data
- 2) "ANM\_MRI" includes features extracted from imaging (MRI) data

#### METHODOLOGICAL INFORMATION

Description of methods used for collection/generation of data: see [1].

Methods for processing the data: see [1].

Instrument- or software-specific information needed to interpret the data:  
The scripts were created using Matlab R2020a.