ADNI 202 Dataset

The Alzheimer's Disease Neuroimaging Initiative (ADNI) 202 data set contains extracted features of MRI, PET, CSF for 202 subjects, which can be used for Alzheimer's Research. This data set provided from ADNI[1] website; and it was processed by Prof. D. Zhang form iBRAIN[2] group, which is located at Computer Science and Technology Department in Nanjing University of Aeronautics and Astronautics (NUAA). The subject information listed as follows:

Table 1
Subject information.

	AD ($n=51$; 18 F/33 M)			MCI ($n=99$; 32 F/67 M)			HC ($n=52$; 18 F/34 M)		
	Mean	SD	Range	Mean	SD	Range	Mean	SD	Range
Age	75.2	7.4	59–88	75.3	7.0	55–89	75.3	5.2	62–85
Education	14.7	3.6	4–20	15.9	2.9	8–20	15.8	3.2	8–20
MMSE	23.8	2.0	20–26	27.1	1.7	24–30	29	1.2	25–30
CDR	0.7	0.3	0.5–1	0.5	0.0	0.5–0.5	0	0.0	0–0

The numbers refer to baseline data. AD = Alzheimer's Disease, MCI = Mild Cognitive Impairment, HC = Healthy Control, MMSE = Mini-Mental State Examination, CDR = Clinical Dementia Rating.

This data set is provided for using by Matlab. You can load this dataset on Matlab by following command:
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>> load('ADNI202.mat')
```

The properties of each variable are listed as follows:

Table 2

Name	Size	Note
CSF	202 subjects × 3 features	β_{42}, t-tau, and p-tau from ADNI website
MRI	202 subjects × 93 features	Extracted from ROIs
PET	202 subjects × 93 features	Extracted form ROIs
GND3	202 subjects × 1 ground truth	1 = Alzheimer's Disease (51 subjects) 2 = Mild Cognitive Impairment (MCI) (99 subjects) 3 = Healthy Control (52 subjects)
GND4	202 subjects × 1 ground truth	1 = Alzheimer's Disease (51 subjects) 2 = MCI, converters to AD within 18 months (43 subjects) 3 = MCI, non-converters to AD within 18 months (56 subjects) 4 = Healthy Control (52 subjects)