

Accepted Manuscript

Deep Ensemble Learning of Sparse Regression Models for Brain Disease Diagnosis

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PII: S1361-8415(17)30016-6
DOI: [10.1016/j.media.2017.01.008](https://doi.org/10.1016/j.media.2017.01.008)
Reference: MEDIMA 1223



To appear in: *Medical Image Analysis*

Received date: 19 August 2016
Revised date: 14 January 2017
Accepted date: 23 January 2017

Please cite this article as: Heung-Il Suk, Seong-Whan Lee, Dinggang Shen, for the Alzheimer's Disease Neuroimaging Initiative, Deep Ensemble Learning of Sparse Regression Models for Brain Disease Diagnosis, *Medical Image Analysis* (2017), doi: [10.1016/j.media.2017.01.008](https://doi.org/10.1016/j.media.2017.01.008)

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Highlights

- A novel framework that combines the two conceptually different methods of sparse regression and deep learning for Alzheimer's disease/mild cognitive impairment diagnosis and prognosis
- Use of the outputs from sparse regression models with different values of a regularization control parameter as target-level representations
- Rigorous experiments with MR images of 805 subjects in the ADNI cohort

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