## **Accepted Manuscript**

Multi-Modal Classification of Neurodegenerative Disease by Progressive Graph-Based Transductive Learning

Zhengxia Wang, Xiaofeng Zhu, Ehsan Adeli, Yingying Zhu, Feiping Nie, Brent Munsell, Dinggang Shen, Guorong Wu, for the ADNI and PPMI

PII: \$1361-8415(17)30074-9 DOI: 10.1016/j.media.2017.05.003

Reference: MEDIMA 1258

To appear in: Medical Image Analysis

Received date: 15 June 2016
Revised date: 27 January 2017
Accepted date: 9 May 2017



Please cite this article as: Zhengxia Wang, Xiaofeng Zhu, Ehsan Adeli, Yingying Zhu, Feiping Nie, Brent Munsell, Dinggang Shen, Guorong Wu, for the ADNI and PPMI, Multi-Modal Classification of Neurodegenerative Disease by Progressive Graph-Based Transductive Learning, *Medical Image Analysis* (2017), doi: 10.1016/j.media.2017.05.003

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

#### ACCEPTED MANUSCRIPT

### Highlights

- Learn an intrinsic data representation for optimal classification.
- Flexible to integrate with multi-model imaging data.
- Progressive graph-based transductive learning for classification of neurodegenerative disease.
- Our proposed transductive learning framework is more efficient than supervised learning approaches to deal with issues such as small sample size and large data heterogeneity.

<sup>\*</sup> Corresponding author: <a href="mailto:grwu@med.unc.edu">grwu@med.unc.edu</a>; <a href="mailto:dgshen@med.unc.edu">dgshen@med.unc.edu</a>;

#### Download English Version:

# https://daneshyari.com/en/article/4953388

Download Persian Version:

https://daneshyari.com/article/4953388

Daneshyari.com