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Authors: Mingwu Jin, Weishu Deng

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ACCEPTED MANUSCRIPT

Predication of Different Stages of Alzheimer's Disease Using Neighborhood Component Analysis and Ensemble Decision Tree

Running title: Predication Using NCA and Ensemble Tree

Mingwu Jin* and Weishu Deng

Department of Physics, University of Texas at Arlington, Arlington, TX, 76019

*Correspondence to:

Mingwu Jin, Ph.D.

Univ. of Texas at Arlington

Dept. of Physics

502 Yates Street

BOX 19059

Arlington, TX 76019

Email: mingwu@uta.edu

Phone: 817-272-6262

Fax: 817-272-3637

Highlights:

- **The neighborhood component analysis (NCA) is proposed for feature selection of MRI measures.**
- **NCA combined with the boosting tree achieves better prediction performance than other methods.**
- **The best prediction accuracy for four stages of Alzheimer's disease is 56.25%.**

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