## **Accepted Manuscript**

Linear Regression Based Projections for Dimensionality Reduction

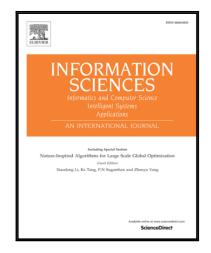
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PII: S0020-0255(16)31185-9 DOI: 10.1016/j.ins.2018.07.066

Reference: INS 13833

To appear in: Information Sciences

Received date: 4 October 2016 Revised date: 17 January 2018 Accepted date: 26 July 2018



Please cite this article as: Si-Bao Chen, Chris H.Q. Ding, Bin Luo, Linear Regression Based Projections for Dimensionality Reduction, *Information Sciences* (2018), doi: 10.1016/j.ins.2018.07.066

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#### ACCEPTED MANUSCRIPT

### 1 Highlights

- Linear Regression based Projections (LRP) is proposed for dimensionality reduction.
- LRP does not need to manually choose the neighborhood size in constructing graph.
- A discriminative L2-graph is computed using label information of training data.
- Two types of weights are investigated to construct discriminative L2-graph.
- LRP is much faster since it computes edge weights using class-specific samples.

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