

Accepted Manuscript

Linear Regression Based Projections for Dimensionality Reduction

Si-Bao Chen, Chris H.Q. Ding, Bin Luo

PII: S0020-0255(16)31185-9
DOI: [10.1016/j.ins.2018.07.066](https://doi.org/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](https://doi.org/10.1016/j.ins.2018.07.066)



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.

1 Highlights

- 2 • Linear Regression based Projections (LRP) is proposed for dimension-
3 ality reduction.
- 4 • LRP does not need to manually choose the neighborhood size in con-
5 structing graph.
- 6 • A discriminative L2-graph is computed using label information of train-
7 ing data.
- 8 • Two types of weights are investigated to construct discriminative L2-
9 graph.
- 10 • LRP is much faster since it computes edge weights using class-specific
11 samples.

Download English Version:

<https://daneshyari.com/en/article/6856128>

Download Persian Version:

<https://daneshyari.com/article/6856128>

[Daneshyari.com](https://daneshyari.com)