Accepted Manuscript

A Nonlinear Orthogonal Non-Negative Matrix Factorization Approach to Subspace Clustering

Dijana Tolić, Nino Antulov-Fantulin, Ivica Kopriva

PII: S0031-3203(18)30164-X
DOI: 10.1016/j.patcog.2018.04.029
Reference: PR 6543

To appear in: *Pattern Recognition*

Received date: 28 March 2017
Revised date: 22 March 2018
Accepted date: 27 April 2018

Please cite this article as: Dijana Tolić, Nino Antulov-Fantulin, Ivica Kopriva, A Nonlinear Orthogonal Non-Negative Matrix Factorization Approach to Subspace Clustering, *Pattern Recognition* (2018), doi: 10.1016/j.patcog.2018.04.029

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

- Subspace clustering is solved from nonlinear orthogonal NMF perspective.
- General kernel-based multiplicative orthogonal updates for NMF are derived.
- Explicit orthogonality constraint excludes the usual k-means clustering step.
- The local geometric structure is included via fully connected graph regularization.
- A connection between spectral clustering and kernel orthogonal NMF is established.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6938774

Download Persian Version:

https://daneshyari.com/article/6938774

Daneshyari.com