

Accepted Manuscript

Non-Linear Matrix Completion

Jicong Fan, Tommy W.S. Chow

PII: S0031-3203(17)30402-8
DOI: [10.1016/j.patcog.2017.10.014](https://doi.org/10.1016/j.patcog.2017.10.014)
Reference: PR 6326

To appear in: *Pattern Recognition*

Received date: 26 April 2017
Revised date: 4 September 2017
Accepted date: 6 October 2017

Please cite this article as: Jicong Fan, Tommy W.S. Chow, Non-Linear Matrix Completion, *Pattern Recognition* (2017), doi: [10.1016/j.patcog.2017.10.014](https://doi.org/10.1016/j.patcog.2017.10.014)



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.

Highlights

- Conventional matrix completion methods are linear methods. This paper proposed a non-linear matrix completion (NLMC) method that is able to handle data of non-linear structures.
- NLMC significantly outperforms existing methods in the tasks of image inpainting and single-/multi-label classification.
- The idea of NLMC is extended to a non-linear rank-minimization framework applicable to other problems such as non-linear denoising.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6939363>

Download Persian Version:

<https://daneshyari.com/article/6939363>

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