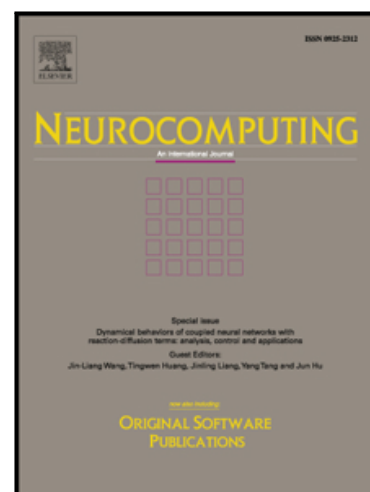


Accepted Manuscript

Robust L_1 -norm multi-weight vector projection support vector machine with efficient algorithm

Wei-Jie Chen, Chun-Na Li, Yuan-Hai Shao, Ju Zhang, Nai-Yang Deng

PII: S0925-2312(18)30862-2
DOI: [10.1016/j.neucom.2018.04.083](https://doi.org/10.1016/j.neucom.2018.04.083)
Reference: NEUCOM 19780



To appear in: *Neurocomputing*

Received date: 11 June 2017
Revised date: 28 April 2018
Accepted date: 29 April 2018

Please cite this article as: Wei-Jie Chen, Chun-Na Li, Yuan-Hai Shao, Ju Zhang, Nai-Yang Deng, Robust L_1 -norm multi-weight vector projection support vector machine with efficient algorithm, *Neurocomputing* (2018), doi: [10.1016/j.neucom.2018.04.083](https://doi.org/10.1016/j.neucom.2018.04.083)

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

- The first robust L_1 -norm based SVM classifier (MVSVM $_{L1}$) for multi-projections problems is proposed.
- MVSVM $_{L1}$ is more robust than L_2 -norm based MVSVMs to the outliers.
- A simple but efficient iterative algorithm is designed to address the L_1 -norm ratio problem.
- The convergence of the algorithm is analyzed theoretically.
- Experimental results confirm the feasibility and superiority of the proposed MVSVM $_{L1}$.

Download English Version:

<https://daneshyari.com/en/article/10151189>

Download Persian Version:

<https://daneshyari.com/article/10151189>

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