Reviewer’s report

Title: Application of an Interpretable Classification Model on Early Folding Residues during Protein Folding

Version: 0 Date: 27 Sep 2018

Reviewer: Quan Zou

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In this paper, they present a Weka plug-in implementing GMLVQ. The feasibility of GMLVQ is demonstrated on a dataset of Early Folding Residues (EFR) that have been shown to initiate and guide the protein folding process. Generally speaking, this paper is well-written. It is also interesting and meaningful. However, there are still some problems should be solved before accept for publication.

1. In feature representation, more impact features should improve the performance. Why not integrate some sequence-based features as introduced in references (PMID:29868903; PMID:28222000).

2. It's not clear for me how they created their dataset.

3. What's the novelty for this paper? It seems that they just applied a new classifier to this field. They should strength the contribution of this work.

4. If possible, webserver that implements the proposed method should be established also. Unfortunately, the authors did not establish a web server. This also limits the practicability of the proposed method. Thus, authors should add the following paragraph as follows: "Since user-friendly and publicly accessible web-servers represent the future direction for developing practically more useful models (PMID:30239627; PMID:30081234; PMID:28320624; PMID:28245947), we shall make efforts in our future work to provide a web-server for the method presented in this paper."

Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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