## **Accepted Manuscript**

PSPLPA: Probability and similarity based parallel label propagation algorithm on spark

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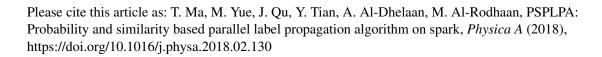
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## ACCEPTED MANUSCRIPT

The high lights are following :

- 1. propose a method to calculate the propagation probability and similarity between nodes with low complexity which utilized the improved K-shell decomposition,  $\begin{tabular}{ll} \hline \end{tabular}$
- 2. proposed a new label updating strategy using the propagation probability and similarity between nodes,
- 3. propose a algorithm based on Spark and can handle the large-scale datasets efficiently.

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