

Review of: "A Novel Variable Neighborhood Search Approach for Cell Clustering for Spatial Transcriptomics"

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Potential competing interests: No potential competing interests to declare.

This paper introduces a new cell clustering approach using Variable Neighborhood Search (VNS), effectively combining gene expression and spatial coordinates. The method's superiority over existing techniques and its applicability across fields such as biomedical research and spatial data analysis are highlighted.

The paper is well written and well presented; however, it needs some adjustments to become a high-level paper. The experimentations conducted by the authors do not give us a conclusion about the stability of VNS and its superiority over traditional ML algorithms.

More details are needed in the state of the art involving ML techniques such as K-means and DBSCAN.

More details are needed in the abstract to cover aspects of the experiments and the conclusions drawn.

The new contribution seems relatively limited and must be better underlined and explained.

The bibliography is recent and covers all the key words of the subject. The language is acceptable, and the paper is easy to read.