

Review of: "Solving Pallet loading Problem with Real-World Constraints"

Mahdi Karimi¹

¹ Iran University of Science and Technology Tehran

Potential competing interests: No potential competing interests to declare.

The main idea of the article is good, but it needs a major revision to be prepared for further consideration.

It seems the authors were in hurry to complete the introduction section. The references are very out dated (2007-2008) and they cannot show the research gap properly. They must rewrite this part and add at least 10 more new articles (since 2020) about pallet loading to it.

The authors must add a section as "Highlights" and mention their contributions in this part.

A brief review of the literature (as a chart) would be nice.

If the authors add symbols and assumptions to a separate part, it would be easier to understand the model.

A complete problem description is needed. It is hard to understand the problem.

Introduce some other methods used to solve the problem such as dynamic programming.

Correct the first formula in page 3. (ψ_i for the second sigma).

Let a expert double check the pseudo code and model.

Introduce a fitness function to compare the proposed method and the exiting methods. (show us which of your pallet configurations is better mathematically. It is necessary to compare the results with exiting method (compare at least objective function and time)

The conclusion part claims that the findings of this article can improve efficiency and reduce costs; how did you conclude this without any objective function? A sensitivity analysis is needed to accept such claims.

I recommend you rewrite the contribution section and add some managerial insights to it.

I would like to check the source code if it is possible.