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| Book Name: | [**Engineering Research: Perspectives on Recent Advances**](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5373** |
| Title of the Manuscript:  | **Smart Layout Solutions for Forklift Optimization in Food Manufacturing Facilities** |
| Type of the Article | **Book Chapter** |

**General guidelines for the Peer Review process:**

**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.**

This Book’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty’**, provided the manuscript is scientifically robust and technically sound.

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**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**AIP Conference Proceedings, 2813, 020023 (2023)**

**Available:** [**https://doi.org/10.1063/5.0157887**](https://doi.org/10.1063/5.0157887)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript addresses an important issue in industrial safety by proposing an optimized plant layout that considers safety and fire prevention. The use of a quantitative risk assessment approach combined with a new scoring method makes the study relevant for researchers and practitioners working on hazard mitigation in process industries. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | *Partially*. While the current title reflects the general focus, it could be more specific to emphasize the methodological contribution.Suggested Alternative Title:*"Quantitative Risk-Based Optimization of Plant Layout for Enhanced Fire Safety in Process Industries"* |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Suggestions:* Include brief mention of the scoring method or optimization approach.
* Add quantitative improvements achieved in safety metrics or layout efficiency.
* Clarify what makes the proposed layout superior to the existing one
 |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript is generally scientifically sound and follows a logical structure. However, the methodology section requires clearer explanation, particularly regarding the scoring system and how hazards were prioritized. More detailed discussion of validation or benchmarking of the proposed method would enhance credibility. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references are relevant but could be strengthened with more recent publications (post-2020) in risk-based layout optimization, fire safety, and quantitative risk assessment methods. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is mostly understandable, but several grammatical errors, awkward phrases, and inconsistent technical terminology reduce clarity. |  |
| Optional/General comments | * Expand the motivation with industry data and recent literature.
* Clarify the methodology, including participant selection and bias control.
* Provide quantitative comparison between current and proposed layouts.
* Improve layout visuals and justify safety design parameters.
* Discuss the broader applicability and limitations of the proposed solution.
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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *no* |  |

**Reviewer details:**

Md Saifur Rahman, Chittagong University of Engineering and Technology(CUET) Bangladesh