

Review Form 3

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|--------------------------|---|
| Journal Name: | Journal of Engineering Research and Reports |
| Manuscript Number: | Ms_JERR_129667 |
| Title of the Manuscript: | Technological Progress And Engineering Applications: Safety Impacts For Workplaces And Society” |
| Type of the Article | |

General guidelines for the Peer Review process:

This journal'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. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

| | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|---|--|
| 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. | Great article, this paper makes a significant contribution to the fields of industrial safety and engineering by adapting the Black-Scholes-Merton model for dynamic risk assessment in interconnected industrial environments. Its innovative approach bridges financial modeling with industrial applications, providing a quantitative framework to address safety risks in Industry 4.0. The integration of IoT data for real-time monitoring and the emphasis on ethical considerations enhance its relevance and practicality for policymakers, engineers, and researchers. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | The title is appropriate and clearly reflects the manuscript's focus. However, for better alignment with its technical depth, a possible alternative could be: <i>"Adapting Financial Models for Industrial Safety: Bridging Technological Progress and Workplace Risk Assessment."</i> | |
| 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. | The abstract is comprehensive and effectively summarizes the study's objectives, methodology, results, and implications | |
| Is the manuscript scientifically, correct? Please write here. | Yes, the manuscript is scientifically correct | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references are adequate and include recent and relevant works. However, the inclusion of additional references on advanced risk modeling techniques, such as deep learning-based risk prediction, could further strengthen the manuscript | |
| Is the language/English quality of the article suitable for scholarly communications? | The language quality is suitable, but minor improvements in sentence structure and flow could enhance readability, particularly in the methodology and discussion sections. | |
| Optional/General comments | | |

PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|---|---|
| Name: | Rajath Karangara |
| Department, University & Country | Welingkar Institute of Management, USA |