Review of: "Optimized Material Removal and Tool Wear Rates in Milling API 5ST TS-90 Alloy: AI-Driven Optimization and Modelling with ANN, ANFIS, and RSM"

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Potential competing interests: No potential competing interests to declare.

Dear Editor

The manuscript entitled "Optimized Material Removal and Tool Wear Rates in Milling API 5ST TS-90 Alloy: AI-Driven Optimization and Modelling with ANN, ANFIS, and RSM" has the proper structure and literature and is well-written regarding the language. However, some vital and ameliorative notes should be considered:

1. Please review the manuscript again to check and obviate the minor literature mistakes. For example, correct these mistakes: Abstract section: modelling - Introduction section: in efficient
2. A figure of ANN (back propagation) is needed to depict its structure. This figure can be added in the section 2.2.2.
3. Present the whole present approach in a schematic way. A figure can be used to show the present process from beginning to end.
4. Have you concluded the results based on the training stage? The results need to be earned according to the test stage.
5. The results of statistical error indicators should be based on the test phase. Please compare the performance of the different techniques based on the test stage.
6. The present study is just about modeling and simulation, it is not an optimization process. Using the ANN, ANFIS, etc present just a simulation process with exact results that are not known to be optimal or not. The obtained results can not be named as optimum results and they are just the final answer of the modeling. Revise the whole manuscript to alter the approach.

The manuscript needs **_major_** revision.

With respect

Mohammad Mahdi Malekpour