

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"

Mohammad Reza Chalak Qazani¹

¹ Deakin University

Potential competing interests: No potential competing interests to declare.

The paper looks exciting and is within the journal's scope. However, some comments need to be taken care of.

Abstract:

The research gaps, novelty and main contribution of the study should be clearly stated.

Introduction:

There is a need for a comprehensive review of the literature of past researchers' literature to strengthen the proposed study's background check. Here are some of the previous works that I suggest the authors can go through them:

A machine learning method for cutting parameter selection in rotary ultrasonic-assisted end grinding

Machine learning-based modelling and meta-heuristic optimization of specific tool wear and surface roughness in milling.

Estimation of tool–chip contact length using optimized machine learning in orthogonal cutting

In the last paragraph of the introduction, only talk about the research gaps, novelty, brief methodology, and main contribution of the proposed methods.

Material and Design:

Fig. 1 should be updated to show the experimental tools inside the picture.

Artificial Neural Network (ANN) and Adaptive Neuro-Fuzzy Inference System (ANFIS) subsections can be shortened.

Results and Discussions:

Figures 18-22 are not shown professionally. They should be regenerated. The screenshot of the MATLAB tools is not acceptable in the professional research article.