

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"

Neeraj Kumar Bhoi¹

¹ Banasthali University

Potential competing interests: No potential competing interests to declare.

1. How does the Material Removal Rate (MRR) impact the efficiency and cost-effectiveness of manufacturing processes, and why is it important to optimize it?
2. How do artificial neural networks (ANNs) and adaptive neuro-fuzzy inference systems (ANFISs) differ in their approach to predictive modeling, and what are their respective strengths and weaknesses in the context of optimizing MRR and TWR in milling processes?
3. In the study, it was found that ANFIS showed a better predictive capability than RSM and ANN for both MRR and TWR. What factors or characteristics of ANFIS might contribute to this superior performance?
4. How important is the validation of optimized milling parameters, and what challenges might arise when implementing these parameters in a real manufacturing environment? Some managerial implication of the study is much appreciated in the manuscript.