

## Editorial

In this edition of our journal, we feature a cutting-edge research paper that explores the application of Neural Network Regression (NNR) for evaluating the Remaining Useful Life (RUL) of bearings. This study leverages the capabilities of the Azure cloud service platform to demonstrate the superiority of NNR over multiple neural network models readily available on the platform. By integrating statistical verification techniques, the research provides a robust framework for predictive maintenance in industrial settings.

The paper focuses on the effectiveness of Neural Network Regression (NNR) in forecasting the Remaining Useful Life (RUL) of bearings, specifically using data from the NASA FEMTO-ST Institute's bearing dataset. The researchers argue that NNR outperforms other models available in Azure, offering a non-programming technique for analyzing large datasets without the need for complex tools like Hive, Hadoop, or Pig [1].

The featured paper exemplifies innovative and impactful research in the field of predictive maintenance and machine learning. By leveraging the Azure platform and integrating statistical verification methods, the study provides a robust framework for forecasting the Remaining Useful Life of bearings. We are excited to share these insights with our readers and anticipate that they will inspire further advancements and research in the field.

### References:

- [1] H.O. Omoregbee, M.U. Olanipekun, B.A. Edward, "NNR Artificial Intelligence Model in Azure for Bearing Prediction and Analysis," *Journal of Engineering Research and Sciences*, vol. 2, no. 6, pp. 1–9, 2023, doi:10.55708/js0206001.

**Editor-in-chief**

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