

## automotive testing expo EUROPE ATE 2025

20, 21 + 22 May 2025

**Place:**

Stuttgart, Germany

**Title:**

AI-Enabled End-of-Line Testing Based on Vibro- and Psychoacoustic Analyses

**Author**

Lasse Halve

**Abstract:**

Apart from functional and electric tests, testing for vibro-acoustic tolerances is becoming increasingly common and sought after. Many OEMs demand adherence to vibro-acoustic specifications in quality control from their suppliers. Furthermore, vibro-acoustic measurements can be used very effectively to monitor production quality in a wide field of products. In this talk, we present a case study combining psychoacoustic pre-processing with high-performance AI models for real-time End-of-Line quality control. All steps, including data acquisition, data preparation, and training of the AI algorithms are integrated within an easy-to-use suite of tools, significantly reducing the engineering effort required.

Find more event abstracts in our >> [abstracts archive](#) <<