Bachelorarbeit zu vergeben

Bestimmung des Längenbereichs und der Mindestgeschwindigkeit zur Erkennung von punktuellen Instabilitäten im Fahrzeug-Fahrwegmodell

Determination of the Length Range and the Minimum Speed to Detect Local Instabilities in a Track-Vehicle Scale Model

Local instabilities appear when the track bed stability fails; nevertheless, the length of this failure can vary depending of the gravity of its causes.

Finding a minimum and maximum length in which this failure can detect, can give an idea about the detection of this failure in an initial state and in a critical condition with the vertical acceleration signal generated in a Track-Vehicle Scale Model.

On the other hand, the speed plays an important role, because the amplitude of the vertical acceleration signal depends of it and finding the minimum speed allows to know how relevant it is as input to detect the local instability by using machine learning models.

The goal of this research is to find the length range and the speed in which the vertical acceleration pattern behaves like a local instability.

Bei Interesse wenden Sie sich bitte an:
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