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Application of supervised machine learning algorithms for impulses intensity recognition

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ABSTRACT

The paper discusses vibrations of oscillator, which are caused by series with a stochastic value of an impulse and stochastic moments of excitation of the movement. This article analyzes time series obtained in simulation and experimental studies for the same forcing distributions at different forcing intensities. Algorithms are sought to identify the intensity of impulses for classifiers based on the same estimators of the parameters of the distributions.

Keywords: stochastic vibrations, stochastic impulses, supervised machine learning.

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