

DEVELOPMENT OF METHODOLOGY OF VOLUME ASSESSMENT OF A CARGO LOADED ON A MOVING OBJECT USING TERRESTRIAL LASER SCANNING TECHNIQUE

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The scientific paper focuses on developing a methodology for calculating the volume of cargo transported on a moving object, such as a mining haul truck, using terrestrial laser scanning technology. The main objective of the study is to adapt this technology to the specific working conditions in mining and to determine the measurement accuracy.

The research also includes automating the volume calculation process through the implementation of a dedicated script, which significantly streamlines and standardizes the measurement procedure.

Ultimately, this research aims not only to improve the measurement technique but also to enhance operational efficiency and precision in mining and related fields, where accurate volume determination is crucial for managing logistical and economic operations.