

# Presentation of the paper “Learning based on 3D photogrammetry models to evaluate the competences in visual testing of welds”

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## Abstract

The present work describes a new learning methodology based on the latest scientific research aimed at the three-dimensional macro-photogrammetric reconstruction of welds, which allows the generation of teaching materials aimed at the acquisition and evaluation of competencies in the non-destructive testing laboratory activities without the need for a physical displacement to the physical installation. This methodology, which can be cataloged within those based on virtual laboratories, is applicable in e-learning courses or can also be used as support material for face-to-face programs, mainly in the bachelor's and master's related to mechanical, naval and aeronautical engineering. The distribution of the packages is easy to load in learning management system in order to work with the models with open software, easily and without the need for additional costs.

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## Keywords

Virtual laboratory; Welding; NDT; Higher education; Engineering

## Link to the presentation

[https://figshare.com/articles/Learning\\_based\\_on\\_3D\\_photogrammetry\\_models\\_to\\_evaluate\\_the\\_competences\\_in\\_visual\\_testing\\_of\\_welds/7379498/1](https://figshare.com/articles/Learning_based_on_3D_photogrammetry_models_to_evaluate_the_competences_in_visual_testing_of_welds/7379498/1)

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