



## ABSTRACT SUBMISSION

# Efficiency in Archaeological Documentation: Photogrammetry and Pottery Analysis from Iron Age settlement of Dzedzvebi, Georgia

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## Abstract

This paper introduces an approach for the documentation of ceramic material from the Iron Age settlement of Dzedzvebi in the region of Kvemi Karti, Georgia. The analysis of extensive pottery collections frequently encounters the challenge of limited time for documentation. The primary objective of this methodology is to shorten the documentation process, especially when the material is accessible for study only for a limited time period.

From over 10,000 analyzed sherds in this research, a selection of diagnostic samples are drawn and photographed. The investigations at the site are ongoing since 2007, and a number of drawings have already been produced using traditional techniques. This provides an opportunity to conduct comparative analyses between conventional documentation methods and photogrammetry.

The base for this "SfM" creation is a constructed metal installation to which the ceramic material is fixed. This construction ensures that only a single batch of photos is necessary for each documentation session. This advantage is further reflected during the processing of photos, resulting in a reduction in both time and data size.

This way of documentation presents additional advantages for later studies, enabling the extraction of new information and insights into the Iron Age in the Caucasus.

## Keywords

Caucasus, Pottery, Structure from motion, Photogrammetry, Iron Age

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