

Possibly GIS methods for documentation of paleontological relics

Abstract

The bachelor thesis is focused on use of geoinformatic methods for creation of 3D model. The thesis is produced in cooperation with the Chlupáč's Museum of Earth History, which lent a paleontological artifact for processing. The theoretical part deals with laser scanning and close-range photogrammetry. Both methods are used in the practical part for own data collection and subsequent creation of 3D model. Data processing was mostly done in Trimble RealWorks, MeshLab and Agisoft PhotoScan. Another output is the HTML page that allows visualization in the Internet environment.

key words

3D model, laser scanning, close-range photogrammetry, point cloud