Abstract

The thesis deals with contemporary methods of converting 3D geoinformation model into analog/printed form using various types of printers. The thesis documents an overview of current works and methods used. The benefit of the thesis is the overview of methods, software and available options for 3D printing. Based two types of printers the thesis demonstrates outputs quality. Also, the thesis introduces a general prescription for the process of processing the geoinformation data of a 3D model to print it. This process is applied in course of preparation cpecific model. In the empirical part, the thesis is applied on the concrete case study of the historical modeling of the Ostrov monastery. An integral part of the thesis is also a comparison of outputs of two selected printers - powder and string type.

Keywords: 3D print, technologies, methods of 3D print, 3D model, GIS