

# **Analysis of extensiveness of the ruins in the Czech Republic**

## **Abstract**

This bachelor thesis deals with the analysis of extensiveness of 15 selected largest ruins in the Czech Republic by means of designed geometric criteria. The analysis of the current state (a ruin) and historical state (a castle) on the basis of a combination of several maps (Orthophoto CR, large-scale geodetic plans from the National Heritage Institute and drawings of ruins from historical publications) was carried out with the use of software ArcGIS. Based on these vector data, the basic criteria (total area, circumference and length of defensive walls) as well as complementary criteria (built-up area, core area, area of outer bailey, area of courtyard and area of barren soil) are analysed by which the extensiveness of a ruin is expressed. The evaluation of numerical results of individual criteria in relation to a current or historical state as well as the finding of the most extensive ruins based on these criteria represent outcome of the thesis.

**Keywords:** analysis, castle, ruin, ArcMap, extensiveness, vastness, criteria, map, plan, cartography