

## **Abstract**

The aim of this bachelor's thesis is to create a detailed large-scale tourist map that shows the location of the Pravčická brána Rock Arch and its surroundings in the Bohemian Switzerland National Park with a focus on depicting the sandstone relief. Emphasis is placed on the use of information about rock structures from detailed aerial laser scanning data, which allows the representation of rock formations using the shading method. The other data for the creation of a detailed map are obtained by evaluating the available old maps of Bohemian Switzerland, Pravčická brána Rock Arch and its surroundings respectively, and contemporary spatial data of the location. As part of the bachelor's thesis, they were refined and supplemented by field research using GNSS. The field survey is conducted mainly using a mobile application Collector for ArcGIS on the basis of a digital relief model created from aerial laser scanning data. The resulting map is processed in the ArcGIS Pro software. The created large-scale map of this location is in the form of a board map or a folded map and is probably the first such detailed tourist map of the nearby Pravčická brána Rock Arch which uses detailed aerial laser scanning data to show rocks and to reveal both contemporary and historical objects and their Czech and German names.

Key words: rock drawing, sandstone landscapes, Pravčická brána, large-scale map