

# **Positional accuracy assessment of underground water courses in ZABAGED**

## **Abstract**

The aim of this bachelor thesis is to provide a comprehensive view of underground water courses through the eyes of a topographer and a cartographer with an emphasis on the evaluation of the position representation of this phenomenon. The first part of the thesis is devoted to the detailed introduction to ZABAGED datasets and to the research of other foreign topographic databases with an emphasis on the representation and display of underground water courses on topographic maps of medium and large scale. In the second part of the thesis, there are presented five basic methods of comparison of positional accuracy of lines in geoinformation systems. The practical part of the thesis includes a proposal of typology of underground water courses, as a comprehensive concept of different types of underground water courses, which is used for the correct evaluation of the position accuracy analysis on the selected relevant sample of the underground water courses in ZABAGED in the last part of this work.

**Keywords:** underground water course; positional accuracy; topographic database