

## **Abstract**

The diploma thesis is aimed at the issue of delimitation the primary schools' catchment areas (PSCA). It follows on from the bachelor's thesis, in which a map representation and evaluation of the current delimitation of PSCA in the territory of Prague 3 Municipal District was realized. The diploma thesis deals with this topic in more depth from a theoretical-conceptual point of view, it describes the discussion of approaches to the distribution of children into primary schools during compulsory school attendance and the parental school choice in various countries, as well as diverse aspects that influence the delimitation of PSCA in Czechia. The focus of the thesis is the methodological part, the aim is to discuss available data sources related to the topic suitable for work in the environment of geographic information systems (GIS) and possible map representations of PSCA. An important part is dedicated to the proposal for the delimitation of PSCA using GIS as an allocation analysis. Everything is illustrated using the example of the Czech capital city, Prague, the current delimitation is compared with the proposal, and the appropriateness of current delimitation of PSCA is evaluated.

**Keywords:** catchment area, primary school, Prague, map representation, geographic information systems, allocation analysis, school choice