

Spatial analysis of urban rail transit stops' pedestrian accessibility in Prague

Abstract

In this thesis, the author discusses qualities and characteristics of three modes of urban rail transit in a general manner, as well as in Prague urban area. The author mainly focuses on geographical aspects of rail transit stations and discusses topics such as ideal distance between individual stops, accessibility by walking, pedestrian path networks and the relationship between planning of urban rail transit stops' locations and population density in a city. The author lists and analyses planned Prague rail transit stops from the perspective of quantitative pedestrian accessibility, as well as all rail transit stops that were in operation in the year 2020. Author produced plentitude of network analyses in ArcMap to quantify accessibility of all Prague rail transit stops and identified which densely populated neighborhoods of Prague can not be accessed by a comfortable walk from a rail transit stop.

Key words: Prague, urban rail transit, station, accessibility, network analysis

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