

The aim of this bachelor thesis is to compare time accessibility of railway and individual automobile traffic in Brno and Ostrava in 1918-2020 and to compare both cities with Prague. Analysis of traffic time accessibility and its visualization methods are described and construed in literature review (containing explanation of terms such as availability, GIS and network analysis). Historical development of Czech road and railway network is also included in this part. Following chapter is dedicated to methodology of data collection and creation of time accessibility map. The comparison of changes in utilization of railway and individual automobile traffic in Brno and Ostrava during hundred year development from 1921 to 2020 is the main purpose of the thesis. The results are confronted between these two cities and Prague. The comparative analysis of both means of transportation and their expediency are construed in discussions. For comparison and evaluation of traffic development in this study, isochronal maps of accessibility and its changes were created. An index of accessibility and plots of its progress during studied time periods were added.