

Generalization of Road Network in Topographic Map

Abstract

The diploma thesis presents automated selection of the elements of path network. The review deals with this term and describes its position in map generalization process; the ways of path thinning applied in the main Czech cartography institutions are reviewed too. Next part of the thesis describes the data and the tools that are applied in the proposed method. The main part introduces the suggested method of selecting elements of path network which was implemented on the test data.

Keywords: map generalization, path network, path thinning, graph theory, ZABAGED, ArcGIS, Python, NetworkX