

PRIHLÁŠKA NA ZÁVEREČNÚ PRÁCU

Meno a priezvisko študenta: Bc. František Hajnovič
Študijný program: informatika (Jednoodborové štúdium, magisterský II. st., denná forma)
Študijný odbor: 9.2.1. informatika
Typ záverečnej práce: diplomová
Jazyk záverečnej práce: anglický

Názov: Distance oracles for timetable graphs

Cieľ: The aim of the thesis is to explore the applicability of results about distance oracles to timetable graphs. It is known that for general graphs no efficient distance oracles exist, however, they can be constructed for many classes of graphs. Graphs defined by timetables of regular transport carriers form a specific class which it is not known to admit efficient distance oracles. The thesis should investigate to which extent the known desirable properties (e.g. small highway dimension) are present in these graphs, and/or identify new ones. Analytical study of graph operations and/or experimental verification on real data form two possible approaches to the topic.

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podpis študenta