

Abstract

The work treats the problem of algorithmic generation of traffic schedules. The emphasised aspect is the relationship between the quality of the schedules and the requirements the customers of the traffic system, being the passengers, put on it.

The work has four major outputs. The first one is a system modelling the traffic network and providing possibility to test generating algorithms. The second is an implementation of genetic algorithm for generating traffic schedules. The third is a set of tested metrics of traffic schedule quality. The fourth is a set of developer packages providing external programmers easy way of implementating the modules of the program; the set is available on the web pages of the project.

Keywords: Traffic schedules, genetic algorithm, passengers, rating