CTU in Prague, Faculty of Transportation Sciences, K620 – Department of Traffic Telematics

Master thesis evaluation by supervisor

Thesis tile: Trip Connection Searching Algorithm

Student: Tomas Tethal

Supervisor: Petr Bureš (CTU in Prague, Faculty of Transportation Sciences)

Evaluation viewpoints	A Excellent	B Very good	C Good	D Satisfactory	E Sufficient	F Failed
1. Meeting of the targets and requirements	X					
2. Professional level, scientific value	X					
3. Applicability	X					
4. Using the knowledge gained by studying	X					
5. Level of planning in writing and preparation	X					
6. Timely and systematic progress in writing	X					
7. Formal organization and structure	X					

8. Overall thesis evaluation and remarks:

The goal of the thesis was to implement shortest path searching algorithm in time dependent networks such as public transportation networks.

The thesis has very detailed state of the art chapter, with introduction of several concepts and many enhancements of connection searching algorithm. However, the main achievement is the implementation of the algorithm, because non of the theoretical works focuses on this part. The author had to get timetables from public network operators, clean them of errors and prepare them for the database. Design the database, import the tables and to write and fine tune the algorithm. Finally the presentation of the results and important upgrades in form of “over the midnight” searching and speeding up of the algorithm to less than 0,5 s.

In my opinion the thesis is exceeds the requirements in every aspect.

9. I recommend the master thesis to the defence and suggest classification: **A (excellent)**

In Prague: 9.1.2015 Signature: