

## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>Occupancy Prediction of Public Parking Spaces</b>
<b>Author's name:</b>	<b>Bc. Viktor Beneš</b>
<b>Type of thesis :</b>	master
<b>Faculty/Institute:</b>	Faculty of Transportation Sciences (FTS)
<b>Department:</b>	Department of Transport Telematics
<b>Thesis reviewer:</b>	Ing. Patrik Horažďovský
<b>Reviewer's department:</b>	Department of Transport Telematics

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>challenging</b>
<i>How demanding was the assigned project?</i>	
The topic of the diploma thesis was chosen by the student. The student has already experience with this parking problematic and within the diploma thesis, he wanted to further develop this issue. The diploma thesis partly follows the student's bachelor's thesis. The topic of this work is interesting and challenging due to its expertise and data processing.	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The student himself chose the method of parking prediction which was one of the goals. This method was systemically described and subsequently designed. The prediction design included programming and data processing. A conclusion has been made for the proposed method of prediction, which may be applicable in reality. The goals of the diploma thesis were thus fulfilled.	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
<i>Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.</i>	
The student worked very actively and efficiently from the beginning. He regularly consulted his thesis with his supervisors. During the consultations, the student's approaches and ideas were mostly confirmed. Therefore, the work was created individually and without dependence on the help of supervisors. I have to evaluate this independence and the way of work very positively and it is a great benefit of the whole diploma thesis.	

<b>Technical level</b>	<b>A - excellent.</b>
<i>Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?</i>	
The student describes the whole method of prediction very well. The chosen method of prediction is, in my opinion, correct and makes sense. The whole work is based on transport telematics connected with Smart city, which corresponds exactly student field of study.	

<b>Formal level and language level, scope of thesis</b>	<b>B - very good.</b>
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
In some parts the work is a little difficult to read, some descriptions should be expanded. Some graphs and the size of the descriptions could also be easier to read – font size. Overall, the work is sufficiently detailed and meets the formal conditions and in general, the formal level is high.	

**Selection of sources, citation correctness****A - excellent.**

*Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?*

The author used the appropriate documentation and sources. The documentation is based on several types of literature. Standards, technical requirements and professional literature are included. A great advantage is the use of own experience and own bachelor's thesis. The scope of publications is fine.

**Additional commentary and evaluation (optional)**

*Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.*

Please insert your comments here.

### III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

*Summarize your opinion on the thesis and explain your final grading.*

I evaluate this whole work very positively. The main advantage is the student's own work, who worked completely independently. The student brings new possibilities of prediction and methods, which he designed and processed himself. The student was very active at all times and he is very interested in the topic. It is very likely that these methods can be used in real operation. The work is very high quality and I definitely recommend it for defense.

The grade that I award for the thesis is **A - excellent**.

Date: **7.6.2021**

Signature:

