

I. IDENTIFICATION DATA

Thesis name:	Localization of visually impaired pedestrians by means of a dialog system
Author's name:	Bc. Pavel Černý
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science and Engineering
Thesis reviewer:	Ing. Jan Vystrčil
Reviewer's department:	IBM Česká republika, spol. s r.o.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
Topic of this thesis has exploratory character where the path to the result is not obvious from the very beginning.	

Satisfaction of assignment	fulfilled with major objections
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
Student has tried several approaches to reach the goal of the thesis. Results of the theses are not fully clear as student has reported he was facing various obstacles during experiments. Implemented prototypes can be re-used in limited extent as instructions for running the prototypes are very brief, so it was hard to run it. There is no statement about supported platforms Linux/Windows or about version of Python that should be used. Any deeper documentation of prototypes and how can be used is missing. UI is containing mixture of Czech and English labels.	

Method of conception	correct
<i>Assess that student has chosen correct approach or solution methods.</i>	
Student has properly analyzed the topic and proposing reasonable solutions that are worth to try. The realization itself could have been done better.	

Technical level	C - good.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
Student is showing good skills in prototyping and planning experiments, however results could be reported in better form. More advanced techniques could be used to gain better results (e.g. chapter 4.3.2).	

Formal and language level, scope of thesis	E - sufficient.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Text is often too structured and more detailed explanations are missing. Lot of pages are just lists of method signatures with short documentation. Sometimes it is hard to get overall picture about designed solutions. Images are of a poor quality and texts in some images (e.g. 3.12) are nearly unreadable. Text is properly formatted on some page but significant errors are present. On page 23 there is some extra space used without any reason. On page 44/45 text is overflowing the page borders and definitely should have been fixed before printing. References to images are broken on some places and some images are not referenced from text.	

Selection of sources, citation correctness	D - satisfactory.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	

Inside implementation I have run into parts (/showcompass) that are apparently copied from <http://www.webdesignermagazine.nl/workshop/maak-een-kompas-met-html5/> but I have not found it in list of references. UI is including even some texts in Dutch.

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

Student has designed several experiments with various prototypes but it will be hard for someone to repeat or build on those experiments as not all the details are provided or explained. Example could be simple summary of participants that are suffering from combinations of impairments, but it's not clear who suffered from which impairment.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

Even though the topic of theses is interesting and student experimented with various approaches to find the solution, the thesis unfortunately has signs of significant lack of time when finalizing both the text and implementation.

Question:

In chapter 4.3.2 you are describing simple method to make address search more robust by means of lowercasing, stripping accents and removing spaces in street names. What other methods can be used to allow e.g. some typos users can make?

I evaluate handed thesis with classification grade **D - satisfactory**.

Date: **23.1.2018**

Signature: