REVIEWER'S OPINION OF FINAL THESIS

![ČVUT - ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE]

I. IDENTIFICATION DATA

Thesis name:	**Technology of iBeacon and its application for people with special needs**
Author's name:	**Bc. Dmytro Kochkurov**
Type of thesis :	master
Faculty/Institute:	Faculty of Transportation Sciences (FTS)
Department:	Department of Applied Informatics in Transportation
Thesis reviewer:	Ing. Miroslav Vaniš
Reviewer's department:	Department of Transport Telematics, FTS

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	**challenging**
Evaluation of thesis difficulty of assignment.	
The thesis focuses on determining accurate location via the current iBeacon technology and extends this technology also to people with special needs. The assignment is relatively difficult.	

Satisfaction of assignment	**fulfilled with major objections**
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.	
All of the parts in thesis assignment were fulfilled but the part of proposal of information system is not satisfying. I don't know where the benefit of this work is. In conclusion author writes "we have developed a system which is based on the technology of iBeacon". However, author only describes iBeacon system and does not propose his own solution for people with special needs. There is also attachment of this work with no description.	

Method of conception	**correct**
Assess that student has chosen correct approach or solution methods.	
The approach of this thesis was chosen right. Firstly author describes the iBeacon technology in the Czech Republic and abroad, explains why he uses iBeacon for the people with special needs. Then, he proposes general solution of the information system with the application in bus station in Kyiv. The last part of the thesis provides the analysis proposal of usability of this system.	

Technical level	**D - satisfactory.**
Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.	
Student did not comment the attachment of his work which had to be aim of the thesis, so it is hard to say. The author is generally working "on surface".	

Formal and language level, scope of thesis	**C - good.**
Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.	
The English level of the work is relatively good, sometimes the order of words in a sentence is not correct. Several captions of figures or tables are badly formatted.	

Selection of sources, citation correctness	**B - very good.**
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.	
The author uses a wide range of sources. For the theoretical part of the work, it is more than satisfying. Some of the sources are badly cited.	

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.

The problem of the work is that the main output should be the part of an application for people with special needs and it is not. I cannot also assess source code, it is attached to the thesis but unfortunately, there is no description of it. The conclusion (the benefit) of the work is not clear.

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.

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

I have two questions:
- What is the source code attached to this work about?
- Do you personally test iBeacon with the people with special needs?

Date: **7.1.2019**   Signature: