

I. IDENTIFICATION DATA

Thesis name:	Indoor Positioning System with BLE and Wi-Fi technology - Data Analysis and Accuracy Improvement
Author's name:	Ching-Chieh Chiu
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Telecommunication engineering
Thesis supervisor:	Ing. Lukáš Vojtěch, Ph.D.
Supervisor's department:	Telecommunication engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The topic of submitted master thesis is up to date. The thesis is based on the previous student's activity in the field of indoor localization. The aim of this thesis is to find and analyze an improved method for the user's location identification.	

Satisfaction of assignment	fulfilled
<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>	
The final thesis corresponds to the assignment in its entirety.	

Activity and independence when creating final thesis	A - excellent.
<i>Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.</i>	
The student's activity was high. The student worked independently. He was always well prepared for consultations.	

Technical level	A - excellent.
<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>	
The author has demonstrated the use of knowledge gained during studies. The selection of methods and used data processing is at appropriate level.	

Formal and language level, scope of thesis	B - very good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
The work fulfills all formal requirements (language, graphic layout). The structure of the work is well organized. However, some of the images reduce the graphic quality of the master thesis.	

Selection of sources, citation correctness	A - excellent.
<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>	
The choice of sources is relevant to the topic. Citations are correct - author uses references in accordance with citation standards.	

Additional commentary and evaluation	
<i>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.</i>	
Result of the experimentally achieved accuracy of localization technique using the hybrid system is very successful and	

perspective for future implementation and real installations.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

The thesis is very successful and I recommend it for the defense. The results show perspective way of improved precision of indoor localization.

I evaluate handed thesis with classification grade **A - excellent**.

Date: **5.6.2017**

Signature: