REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Prototype application for indoor navigation with evaluation using crowdsourcing.**
Author's name:	**Barbora Šourková**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis reviewer:	Ing. Jan Vystrčil
Reviewer's department:	IBM Česká republika, spol. s r.o.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment   **challenging**
Evaluation of thesis difficulty of assignment.

Thesis assignment is of exploratory character and makes it challenging to stay focused on the results that should be achieved.

Satisfaction of assignment   **fulfilled**
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.

Thesis present all sections in enough detail. Analysis chapter provides complex overview of methods for indoor localization. Explanation for selecting the used approach could have been extended.

Method of conception   **correct**
Assess that student has chosen correct approach or solution methods.

Thesis is elaborated according to User Centered Design methodology, and iteratively leads up to results.

Technical level   **B - very good.**
Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

Assignment is fulfilled by state of the art technologies. Technical section (chapter implementation) could provide more details about implementation of the prototype. The qualitative evaluation part provides enough information.

Formal and language level, scope of thesis   **B - very good.**
Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

Student is using proper formal notation and good English, however one more proofread would help fix minor issues.
For example on the page 5. two links to images are broken.

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

All sources in the thesis are properly cited according to standards. Student is using both online sources and also research papers.

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.

Primary goals of the thesis were achieved.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Propose extension of system that will allow detection of in duplicate described landmarks/obstacles.

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

Date: **27.1.2020**   Signature: