

I. IDENTIFICATION DATA

Thesis name:	Optimization of Mobile Networks with Flying Base Station for Mobile Users
Author's name:	Bc. Jakub Nový
Type of thesis :	<input type="text"/>
Faculty/Institute:	<input type="text"/>
Department:	Department of Telecommunication Engineering
Thesis reviewer:	Ing. Tomáš Kukrál
Reviewer's department:	External

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	<input type="text"/>
<i>Evaluation of thesis difficulty of assignment.</i>	
The assignment is advanced enough to be considered for master thesis and enables the student to evaluate current state of the art technologies as well as bring his own ideas.	

Satisfaction of assignment	<input type="text"/>
<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>	
Assignment was fulfilled completely.	

Method of conception	<input type="text"/>
<i>Assess that student has chosen correct approach or solution methods.</i>	
Methodology used in the thesis is right for this kind of publication. Assignment is thoroughly analyzed and student is taking right steps to evaluate the problem, propose algorithm and proper justification is provided in each part.	

Technical level	<input type="text"/>
<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 thesis is serving the right blend of basic introduction and advanced analysis in the field of extending mobile networks with UAV.	

Formal and language level, scope of thesis	<input type="text"/>
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
All part of this thesis are meeting the standard for this kind of work. There are some minor unclear statements which could be described in more precise way, e.g. "overall average throughput" in table 7.1 evaluated as highest/medium/lowest without any further threshold definition. However, these details are negligible.	

Selection of sources, citation correctness	<input type="text"/>
<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 sources are appropriate and student is able to support and evaluate his ideas in context of referenced sources.	

Additional commentary and evaluation	<input type="text"/>
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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.

Algorithm presented in this thesis, as well as the theoretical background supporting the algorithm, bringing significant improvements together with describing all weak and neglected parts.

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

This thesis provides solid introduction into the field of extending mobile network using FlyBS. Student is focusing mainly on signal parameters and network planning because the algorithm is expected to solve this domain.

- **Can you describe ways to improve distance prediction? It is possible to adjust parameters (number of points, time horizon, ...) according to the previous error measurements? Does it make sense to change these parameters per UE?**

Date: **14.6.2020**

Signature: