

## I. IDENTIFICATION DATA

<b>Thesis name:</b>	<b>Mobile network optimization exploiting Multi-Access Edge Computing</b>
<b>Author's name:</b>	<b>Jakub Nový</b>
<b>Type of thesis :</b>	bachelor
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	Department of Telecommunication Engineering
<b>Thesis supervisor:</b>	Ing. Jan Plachý
<b>Supervisor's department:</b>	Department of Telecommunication Engineering

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>challenging</b>
<i>Evaluation of thesis difficulty of assignment.</i>	
The assignment is challenging due to the broad theoretical and practical requirements on students' knowledge.	

<b>Satisfaction of assignment</b>	<b>fulfilled</b>
<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 submitted thesis satisfies the assignment in full with minor extensions. The student provides a deep but adequate analysis of the assigned topic and apart from description of the implemented solution defines open challenges.	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
<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 was regularly attending meetings and providing updates of his work. For each meeting, the student was well prepared and independently solved most of the assigned tasks by himself without needing any help.	

<b>Technical level</b>	<b>A - excellent.</b>
<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 has gained a wide knowledge in the line of the thesis topic by studying a large number of sources, as well as by studying the code of the selected platform for implementation.	

<b>Formal and language level, scope of thesis</b>	<b>B - very good.</b>
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
The thesis is written very well with some minor typos and a few grammar errors.	

<b>Selection of sources, citation correctness</b>	<b>A - excellent.</b>
<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 student obtained and used information sources correctly, within the citation convention and standards. Sources were selected in line of the recommendations from the general technical sources, as well as sources specific to the assigned topic. The student correctly distinguishes between the existing work and his own results and thoughts.	

<b>Additional commentary and evaluation</b>
<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>

The achieved results show that the proposed solution is suitable for future mobile networks, where self-optimization is going to be necessity. The provided theoretical analysis with practical implementation support the performance of the designed implementation.

### **III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION**

The student's thesis assignment is challenging with many open areas. The student was able to gain the required knowledge including theoretical knowledge as well as practical skills necessary to complete the thesis. The submitted thesis is of high quality and will be used for further research and publications. Experimental demonstration shows that the student is capable of independent work in area of research and present the obtained results in a clear and correct way.

#### **Questions for defense:**

- 1. How can you extend the implemented solution for control of multiple base stations?**
- 2. What kind of services do you envision for the implemented solution?**

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

Date: **11.6.2018**

Signature: