ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Probabilistic calculation of incomplete social network user data.**
Author's name:	**Nadiya Yangirova**
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis reviewer:	Associate professor Tumakov Dmitrii Nikolaevich, Ph.D
Reviewer's department:	Kazan Federal University, Institute of Computational Mathematics and Information Technologies, Department of Applied Mathematics

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **challenging**

Evaluation of thesis difficulty of assignment.

In the thesis, artificial Group Method of Data Handling is considered. The model of the relationship of the studied data taken from the profiles of the social network VKontakte is founded.

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.

The author studies the general aspects of social network analysis. The author develops a model to predict some data. She also designs and develops the software package that implements this model.
The thesis as a whole is performed at a high level, although some aspects are not properly discussed.

Method of conception **correct**

Assess that student has chosen correct approach or solution methods.

Existing approaches to the solving the problem were analyzed. A mathematical model of the proposed model is comprehensively described and correct.

Technical level **A - excellent.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

The author did a great research on social network analysis and properly used her knowledge gained by it to complete the task.

Formal and language level, scope of thesis **B - very good.**

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

The thesis is well arranged and well organized. The theoretical part is too long

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.

Sources are selected properly and cited correctly. Some sources are not recent that is not good for machine learning as it is fast-changing field and there are a lot of studies publishing every year.

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.

Judging by results, the task was completely solved. Performance evaluation of the proposed algorithm showed good results.

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.

The thesis, in its content, corresponds to the chosen topic and tasks. However, some questions are remained open:

1. Can this method be applied to another problem?
2. Will they have the same good result?

I evaluate handed thesis with classification grade **B - very good.**

Date: **24.5.2019** Signature: