Tomas Bata University in Zlín
Faculty of Applied Informatics

SUPERVISOR´S EVALUATION OF THE MASTER´S THESIS

Student: **Syed Iftekharuddin** **Supervisor:** **prof. Ing. Roman Šenkeřík, Ph.D.**

Study program: **Engineering Informatics**
Study course/Specialization: **Information Technologies**
Academic year: **2022/2023**

Master's Thesis topic: **Mutual Connection of Evolutionary Algorithms and Complex Networks**

Evaluation:	**A**	**B**	**C**	**D**	**E**	**F**
	Evaluation: A – Best; F - Unsatisfactory					
1. Fulfilment of all points of the assignment	☐	☒	☐	☐	☐	☐
2. Suitability of chosen resolution methods	☐	☐	☒	☐	☐	☐
3. Division of work (chapters, subchapters, paragraphs)	☐	☒	☐	☐	☐	☐
4. Working with literature and citations	☐	☐	☒	☐	☐	☐
5. Level of linguistic elaboration	☐	☐	☐	☒	☐	☐
6. Formal level of work	☐	☐	☒	☐	☐	☐
7. Theoretical part elaboration quality	☐	☒	☐	☐	☐	☐
8. Practical part elaboration quality	☐	☐	☒	☐	☐	☐
9. Achieved results of the work	☐	☐	☒	☐	☐	☐
10. Contribution of the thesis and its exploitation	☐	☒	☐	☐	☐	☐
11. Cooperation of thesis author with the supervisor	☒	☐	☐	☐	☐	☐

Result of the plagiarism test:
The work was assessed in terms of plagiarism with the result 5% identity (main pdf in formal parts). Work is not plagiarism.

Overall evaluation of the thesis:
The resulting mark is not the average of all of the abovementioned evaluations. The mark is awarded by the thesis supervisor according to their deliberations and the ECTS classification scale:
A – Excellent, B – Very good, C – Good, D – Satisfactory, E – Sufficient, F – Insufficient.
Grade F also means "I do not recommend this thesis for defence."

I recommend this diploma thesis for its defence and suggest the following evaluation:

C - Good.

In the case of an "F – Insufficient" grade, provide comments and the shortages of the thesis and the reasons for this assessment.

The thesis formally fulfils all the points of the assignment. This thesis presents an interesting research task in a topic that is relevant to the growing need to analyse complex (social) networks. I commend the student's efforts to consult all the sub-steps and persist in working on the experiment and generating data despite initial setbacks. The thesis significantly extends the earlier thesis by automatically configuring algorithm parameters and comparing several basic prediction models. The shortcoming is then too much briefness in the presentation of explanations, e.g. why a certain

configuration, procedure and algorithm was chosen. Furthermore, due to the time complexity, there was no room for exploring the scalability of the complex network and the section on prediction comparison could have been significantly expanded. The thesis also contains a number of typos and inaccurate statements resulting from imperfect English grammar. Overall, however, further research can build on the results achieved.

Date: 5. 6. 2023 Thesis Supervisor´s Signature: