

Supervisor assessment of Bachelor's Thesis

Student: Dvořák Jiří
Title: Synthetic Fingerprint Generation Using GAN (id 22574)
Supervisor: Kanich Ondřej, Ing., Ph.D., DITS FIT BUT

1. Assignment comments

I consider the assignment of this bachelor's thesis as slightly more difficult. The goal is to generate synthetic fingerprint using GAN neural nets. This is recent research topic which was basically published once. The work follows up current research of the STRaDe group in the field of synthetic fingerprint generation. I am satisfied with the work. Student completely fulfilled the assignment and as an extension implemented some additional optimization methods.

2. Literature usage

Student followed the supervisor's recommendations and found other sources of study on his own. All sources are relevant and their use is correct.

3. Assignment activity, consultation, communication

Student consulted the solution regularly. He was always well prepared and came on the arranged meetings. In several occasions student do not hesitated and contacted me with specific question about the thesis.

4. Assignment finalisation

The work was completed rather on time than in advanced. There were several consultations of the thesis content. The final content was not consulted, nevertheless all the comments from previous version are addressed.

5. Publications, awards

I am not aware of any awards or the student's publishing activities. Despite that the results are interesting and publication could be considered if the student made some extensions.

6. Total assessment

very good (B)

Overall student made a solid work with some extension above the requirements. The assignment is of a research nature. On the other hand, I have to lower the assessment of the work because of the hectic time before the submission deadline. Taking all that into account I recommend the final assessment with the grade **very good (B)**.

In Brno 12 August 2020

Kanich Ondřej, Ing., Ph.D.
supervisor