

Supervisor's statement of a final thesis

Supervisor:	doc. RNDr. Ing. Marcel Jiřina, Ph.D.
Student:	Bc. Martin Šafránek
Thesis title:	Optimization of the painting placement problem using evolutionary techniques
Branch / specialization:	Knowledge Engineering
Created on:	4 May 2023

Evaluation criteria

1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
 - [2] assignment fulfilled with minor objections
 - [3] assignment fulfilled with major objections
 - [4] assignment not fulfilled

The assignment and all partial objectives were fulfilled in all points.

2. Main written part

The scope of the work is adequate to the assignment. The work is built systematically and chronologically. All parts of the thesis are balanced in scope and content. The ideas are well formulated, described and in many cases visualized. Formal notations are correct. The typographical aspects of the thesis are of a very good standard. Sources cited are relevant and cited in appropriate places in the thesis.

100/100 (A)

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3. Non-written part, attachments

The proposed methods are implemented and verified on sample examples. I consider the method of algorithm verification and results evaluation to be correct.

4. Evaluation of results, publication outputs and awards 100/100 (A)

The work contains the student's own contribution. The student proposed his own interesting modifications of existing solutions and demonstrated their success. I believe that the results are innovative enough to have publishing potential.

5. Activity of the student

[1] excellent activity

- [2] very good activity
- [3] average activity
- [4] weaker, but still sufficient activity
- [5] insufficient activity

The student regularly consulted the progress and partial results with the supervisor. The student's approach was exemplary.

6. Self-reliance of the student

- ▶ [1] excellent self-reliance
 - [2] very good self-reliance
 - [3] average self-reliance
 - [4] weaker, but still sufficient self-reliance
 - [5] insufficient self-reliance

The student was able to do independent work, coming up with his own suggestions and developing ideas from meetings.

The overall evaluation

100/100 (A)

I appreciate the student's high interest in the topic, his professional approach, imaginativeness, ability to translate his ideas into a real form, to verify the formulated hypotheses and to put all together to a coherent form of the final thesis.

Instructions

Fulfillment of the assignment

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

Main written part

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 52/2021, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

Non-written part, attachments

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

Evaluation of results, publication outputs and awards

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

Activity of the student

From your experience with the course of the work on the thesis and its outcome, review the student's activity while working on the thesis, his/her punctuality when meeting the deadlines and whether he/ she consulted you as he/she went along and also, whether he/she was well prepared for these consultations.

Self-reliance of the student

From your experience with the course of the work on the thesis and its outcome, assess the student's ability to develop independent creative work.

The overall evaluation

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.