

Review report of a final thesis

Student:	Berker Katipoglu
Reviewer:	Ing. Michal Valenta, Ph.D.
Thesis title: Branch of the study:	Adapting the Conflict-based Search Algorithm for Alternative Objectives Software Engineering

Date: 27. 1. 2020

Evaluation criterion:	The evaluation scale: 1 to 4.		
1. Fulfilment of the assignment	 <u>1 = assignment fulfilled,</u> 2 = assignment fulfilled with minor objections, 3 = assignment fulfilled with major objections, 4 = assignment not fulfilled 		
Criteria description: Assess whether the submitted FT defines the objectives sufficiently and in line with the assi In the comment, specify the points of the assignment that have not been met, assess the s differs substantially from the standards for the FT or if the student has developed the assignment's fulfilment and the way it affected your final evaluation.	everity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment		
Comments:			
The thesis fulfilled the requirements listed in the formal assignments	nent. Even the assignment itself is not suitable for the thesis		
in specialization software engineering, but rather for theoretical	l informatics.		
Evaluation criterion:	The evaluation scale: 0 to 100 points (grade A to F).		
2. Main written part	70 (C)		
<i>Criteria description:</i> 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. 26/2017, 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.			
Comments:			
The thesis is written rather as a scientific article than a software	project. If the reader accepts this point of view, it is possible		
to state that the structure of the text is good and the text itself is well readable.			
However, there are some formal failures in the text - for example missing sources in the labels of the figures 1.1 and 1.2.			
Similarly, it is not clear if the proofs of lemmas and theorems in	the section 3.4 are done by the author or they are taken		
from the source [10].			
Evaluation criterion:	The evaluation scale: 0 to 100 points (grade A to F).		
3. Non-written part, attachments	50 (E)		
Criteria description: Depending on the nature of the FT, comment on the non-written part of the thesis. For ex development to deployment) suitable and adequate? HW – functional sample. Evaluate t experiment.			
Comments:			
The solution is implemented in the Python language. It seems to	be working, but there are no instructions on how to run it.		
Also, the documentation of the code itself is missing., at least th	e names of variables are intuitive and partially self-		
documenting There are some folders on the flash disk containin			
and screenshots.			
Evaluation criterion:	The evaluation scale: 0 to 100 points (grade A to F).		
4. Evaluation of results, publication outputs and awards	70 (C)		
Criteria description: Depending on the nature of the thesis, estimate whether the thesis results could be deplot published/known results or whether they bring in completely new findings.	yed in practice; alternatively, evaluate whether the results of the FT extend the already		

Comments:

I am not an expert on algorithms for multiagent path searching. But it seems to me, that the thesis brings original results and, probably, it may be published as a paper at a suitable conference.

Criteria description: Formulate questions that the student should answer during the Presentation and defence of the FT in front of the SFE Committee (use a bullet list).		
The evaluation scale: 0 to 100 points (grade A to F).		
60 (D)		
Criteria description: 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.		

Comments:

Even the thesis assignment is not much compliant with usual thesis topics in software engineering, which is not completely student fault, it deals with a non-trivial implementation and it brings original results, which, probably, maybe published later. This is the reason I recommend to accept the thesis to the defense, and in the case, that the presentation and the discussion will be focussed also to the software-related point of view, evaluate it as D (satisfactory).

Signature of the reviewer: