

Review of Bachelor's Thesis

Student: Gregorová Jana
Title: Evaluation of Target Shooting by Computer Vision (id 23984)
Reviewer: Zemčík Pavel, prof. Dr. Ing., DCGM FIT BUT

- 1. Assignment complexity** **more demanding assignment**
The assignment of the thesis was quite demanding as it required studies beyond the standard content of the courses at FIT. The work was also demanding from the point of view of efforts necessary for implementation.
- 2. Completeness of assignment requirements** **assignment fulfilled**
The assignment of the thesis was, to my opinion, completely fulfilled.
- 3. Length of technical report** **in usual extent**
The extent of the thesis is as usual, the text is 49 pages long.
- 4. Presentation level of technical report** **95 p. (A)**
The presentation of the work is fine. The text of the thesis is constructed logically and the breakdown of the content into the chapters is nicely done.
- 5. Formal aspects of technical report** **90 p. (A)**
On the formal side, the work is also fine, the text is written in a good English and the layout is nice. Perhaps the text in some of the captions in e.g. Figure 6.1 (and others) is too small.
- 6. Literature usage** **80 p. (B)**
From the content point of view, the literature references are fine. However, the individual references are often incomplete and e.g. publisher, time and date of publishing are missing from many of them.
- 7. Implementation results** **95 p. (A)**
The implementation output of the work is well done and functional. To my opinion, it presents a nice example of image processing application.
- 8. Utilizability of results**
The result of the work is, to my opinion, usable at shooting ranges, etc., It has been presented also at Excel@FIT with success - the work has been awarded by the "expert committee".
- 9. Questions for defence**
 1. Have you evaluated the "shooting results" quantitatively? (E.g. how many differences have been detected in 100 shot results? How many hits have been falsely detected and how many points difference was counted? Note, please, that e.g. Table 3.1 is too informational in this matter.)
 2. Is the solutions tolerant e.g. to colour changes, changes in layout, or perhaps some dirt in the target area?
- 10. Total assessment** **90 p. excellent (A)**
This is an excellent work. The thesis is well written and also the functional output is fine. Moreover, the work has been successfully presented and awarded at Excel@FIT.

In Brno 7 June 2021

Zemčík Pavel, prof. Dr. Ing.
reviewer