

I. IDENTIFICATION DATA

Thesis title:	Robot Following Human with Limited Visual Contact
Author's name:	Brož Bohumil
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Cybernetics
Thesis reviewer:	Robbert Heinecke
Reviewer's department:	Nederlands Instituut Publieke Veiligheid (NIPV) (Netherlands Institute for Public Safety)

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
It involved multiple challenging components that required consistent effort and critical thinking from the participant.	

Fulfilment of assignment	fulfilled with minor objections
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
From a first responder perspective I see that this way could work during our incidents. Of course it stays difficult to integrate robots in unknown environments. With this thesis I see opportunities for the first responders.	

Methodology	correct
<i>Comment on the correctness of the approach and/or the solution methods.</i>	
This methodology described is suitable in situations where FRs aren't able to enter a building.	

Technical level	B - very good.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
Technical level is in my opinion very good. The most important part is further integration with existing systems by example FR systems.	

Formal and language level, scope of thesis	B - very good.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The English and thesis is clear and good understandable.	

Selection of sources, citation correctness	B - very good.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	
I did not miss anything important. I'd appreciate more references from firefighting robots (are there?). Are there firefighting robots available that can do some navigation?	

Additional commentary and evaluation (optional)
<i>Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.</i>
During future designing we will use the text for our internal purposes when designing a new robot or upgrading the existing ones. We will stimulate, using the results of this thesis, the designing and use of new type of robots which are able to

navigate with limited visual contact.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading. Pose questions that should be answered during the presentation and defense of the student's work.

Some questions:

- What are the possibilities for integrating in other systems?
 - Think about navigation tasks from a FR system to a robot system
- How do you think humans/people react on robots that navigate on their own?

The grade that I award for the thesis is **B - very good**.

Date: **6.6.2024**

Signature: