

Study programme: Technology in Transportation and Telecommunications

Study field: Professional Pilot

REPORT OF BACHELOR'S THESIS ADVISOR

Student: Rao Xinpei

Thesis: Assessment of Hazards during and after the Low Operation Regime at the airports

**Thesis assignment:**

- Thesis does not violate CTU methodological instructions ([link](#))  Minimum report length is met (min. 35 pages)
- Thesis assignment fulfilled with each assignment point clearly addressed

	Bachelor's thesis evaluation criteria	Score
1.	<b>Formal and technical aspects. (0 – 30)</b> Evaluate meeting the thesis goal and overall quality of the report with respect to the assigned topic. Excellently addressed assignment evaluate with maximum points. Reduce evaluation proportionally to the extent of the assignment not being addressed properly.	25
2.	<b>Theoretical part and literature review. (0 – 30)</b> Evaluate the relevance of theoretical part with respect to the assignment, extent of the literature review and systematic presentation of the information. If directly copied information dominates (given no violation of citation ethics), reduce at least by 15 points. Another reason for reduction is insufficient choice and presentation of theoretical background, literature, and resources.	22
3.	<b>Extent of implementation works (SW, HW), application of knowledge, methodology appropriateness and thesis conclusion. (0 – 30)</b> A complex and flawless report suitable for publication receives total of 30 points. This aspect is evaluated in terms of contribution to the theoretical knowledge with practical implications. Especially positively perceived are created models, SW products, technical implementations and validated methodologies. Minor methodological flaws may reduce evaluation by maximum of 5 points. Methodological inconsistency with theoretical background, unclear or only partly adequate technical approach reduce evaluation by minimum of 15 points. Further reduction of evaluation can be due to insufficient discussion and conclusions.	23
4.	<b>Formal aspects and thesis structure (writing, text structure, graphs, figures, citations, references etc.). (0 – 10)</b> Evaluated are formal requirements with respect to the rules of writing and thesis attributes, i.e. text formatting, report structure, reference list, inclusion of graphs and tables, citation style. Violating individual requirements evaluate by reduction of 2 points for each violated aspect. Grammar errors, typos or inadequate stylistics or terminology leads to reduction of 2 to 4 points. The report shall include only standard and technical terminology (evaluate the capability to use technical terminology – 2 points), graphs follow standard rules (2 points) and, similar to tables, include legend and are clearly readable (2 points). ISO690 and ISO690-2 citation rules are obeyed (2 points).	7
5.	<b>Total score:</b>	77

### Comments:

If more space is needed, attach to this report additional text on separate pages.

The thesis brings the results of the safety analysis, focused on the selected airport processes, during and after COVID-19 pandemic. In the thesis, the potential hazards that are in relation to the change of the workload and overall intensity of the processes due to significant traffic drop, were evaluated. Such changes are seen as a potential factor leading to operational errors, change of habits, insufficient experience and knowledge, and many more negative impacts. Chosen methodology involves application of the STPA analysis. All steps of this method were performed on the selected processes. The main idea is to try to find a connection between a drop in the workload and potential loss scenarios. Defined characteristics of the operational changes were then discussed in the context of the potential hazard consequences. Chosen approach and method are appropriate. Results were represented in the form of the safety analysis outcomes, which brought a systemic view on the issue. While chosen processes are adequate, analysis could be further extended, enabling wider use of the method. The theoretical part of the thesis brings the view on the issues, however, further discussion of the existing categorization of the hazards and their impact could additionally increase the quality of the thesis. The terminology used in the thesis is at some points inadequate or inappropriately used. This could be explained also through a fact that English is not a native language of the author. Student was active during the thesis preparation, however, extensive consultations and discussions were required. Overall, I evaluate thesis with a mark C.

### Overall thesis grading:

	A (excellent)	B (very good)	C (good)	D (satisfactory)	E (sufficient)	F (failed)
Score:	100 - 90	89 - 80	79 - 70	69 - 60	59 - 50	< 50
			X			

Note: Please justify your evaluation with your comments above

Bachelor's thesis overall evaluation is C and I do recommend the thesis for defence.

Name: Ing. Slobodan Stojić, Ph.D.

Organization: CTU in Prague

Signature:

Date: 27. 08. 2023