

Review of Bachelor's Thesis

Student: Király Adrián

Title: Automatic Event Identification from Flight Data Records (id 20743)

Reviewer: Vlk Jan, Ing., UPGM FIT VUT

1. **Assignment complexity** **average assignment**
The thesis is focused on identification of flight phases based on flight data measurement. I consider the overall difficulty as average.
2. **Completeness of assignment requirements** **assignment fulfilled**
All assigned tasks of the thesis were fulfilled. The visualization of flight in Unity environment was created beyond assigned tasks.
3. **Length of technical report** **within minimum requirements**
The thesis is written on 41 pages and fulfills the minimum conditions. The lower number of pages doesn't influence the quality of reviewed thesis.
4. **Presentation level of technical report** **88 p. (B)**
The thesis is very well structured and understandable for the reader. The chapters are informatively rich except the Chapter 6 Evaluation which should be extended.
5. **Formal aspects of technical report** **90 p. (A)**
The thesis is written in English and according to my opinion at very high level. Typography of the thesis meets high standards.
6. **Literature usage** **89 p. (B)**
The student cites 25 mostly internet resources, which are relevant to the solved topic. I would recommend more frequent citations for better separation of own work.
7. **Implementation results** **95 p. (A)**
The student created a program in the Unity environment which identifies the flight phases from flight data measurement and displays the flight in 3D including such details as retracting the landing gear or scene lightning based on a specific phase of the day. The user interface is well-arranged and the whole program has a very professional look.
8. **Utilizability of results**
Results of this work could be employed in the identification of dynamic aircraft models for which it is necessary to have preprocessed flight data with characteristic features.
9. **Questions for defence**
 - What other flight phases would be appropriate to detect.
 - Is it possible to utilize your application for pilot training? And how?
10. **Total assessment** **90 p. excellent (A)**
The reviewed thesis has a great potential for the future utilization and development and I hope that the student will continue in this work even during master studies. With respect to previous findings I suggest the grade (A)

In Brno 31. May 2018

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