Review of Bachelor's Thesis

Student: Sedláček Šimon
Title: Personal Voice Activity Detection (id 23426)
Reviewer: Landini Federico Nicolás, DCGM FIT BUT

1.   Assignment complexity   **considerably demanding assignment**
The work consisted in reimplementing a system from a state-of-the-art publication. This required to understanding speech technologies as well as being able to utilize neural networks for the task.

2.   Completeness of assignment requirements   **assignment fulfilled with enhancements**
Not only the work in the assignment was done but also extensions that produced results superior over those presented in the original work on which the thesis is based.

3.   Length of technical report   **in usual extent**
All ideas are clearly commented without extra unnecessary information.

4.   Presentation level of technical report   **100 p. (A)**
The work is very well structured making it easily to be understood.

5.   Formal aspects of technical report   **95 p. (A)**
Given the high quality of the work in general, there are a few typographical errors or of style that surprise but the work is in general excellent.

6.   Literature usage   **95 p. (A)**
The references are in general correct. It could be argued in some cases if the chosen references are the best but that is absolutely not a problem.

7.   Implementation results   **95 p. (A)**
Results very well validated.

8.   Utilizability of results
The work reimplements an existing tool which has not been released to the public. This makes this implementation possibly the only open source version of the system. Furthermore, that work was extended showing improvements over the original work.

9.   Questions for defence
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10.   Total assessment   **98 p. excellent (A)**
The work reimplements a state-of-the-art system on a relevant task of speech processing. The implementation matches the results published in the original publication and it is extended to improve those results.
The thesis is written in excellent English. Even if there are a few mistakes, they should not shadow the great clarity in how the ideas, results and discussions were presented.

I recommend the thesis for the awards.

In Brno 15 May 2021

Landini Federico Nicolás
reviewer