

Posudek Vedoucího

Supervisor: Ing. Teymur Azayev

Student: Švrčina Jan

Thesis title: Online Adaptive Control Using Neural Networks

Submission date: 08.2020

Faculty: Faculty of Electrical Engineering

Dpt: Department of Cybernetics

Study programme: (B2654) Kybernetika a robotika

Assignment level:

The assignment topic is an active area of research and requires understanding of advanced concepts and the use of machine learning tools that were developed in the recent 5 years.

The execution was adequate, despite the diploma-thesis-level difficulty.

Assignment fulfillment:

The assignment was fulfilled completely, with good results. The only part that I wanted to see more work on was the training of the Recurrent adaptation policy which did not have great results. Nevertheless, the work done satisfies the assignment.

Activity:

The work done was mostly independent, requiring several short consultations to explain some of the concepts and to provide guidance. Given the difficulty of the assignment, the level of autonomy exceeded expectations. The core of the work was left slightly too close to the deadline for my taste.

Technical level:

The technical level is good, with ample verbal and mathematical description of theory and tools that were used to solve the problem. Citations are also present where required (total of 46).

Personally, I think that the structure of the thesis at some points could be reworked. The quality of the supplementary code is also good and a lot of work was done .

Proposed grade: A (excellent)

Date: 23.08.2020

Supervisor signature: