THESIS REVIEWER'S REPORT

CTU
CZECH TECHNICAL
UNIVERSITY
IN PRAGUE

I. IDENTIFICATION DATA

Thesis title:	WirelessChannelParameterEstimationusingArtificialNeuralNetworks
Author's name:	UdatnýVítek
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Control Engineering
Thesis reviewer:	Christoph Manß
Reviewer's department:	DFKI – MAP, https://www.dfki.de/en/web/research/research-departments/marine-perception/

II. EVALUATION OF INDIVIDUAL CRITERIA

Fulfilment of assignment	fulfilled with minor objectic

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.
The thesis addresses all assigned tasks. Yet some are not detailed enough covered in this thesis. Instead of only stating the obvious, I would have liked to see some more discussions and conclusion on the results.

Methodology	correct

Comment on the correctness of the approach and/or the solution methods.
The methodology of the work is well chosen and the way how the thesis uses this is ok. There are however some remarks on the algorithms on a detailed level.

Technical level	C - good.

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?
The technical level is ok. As a reader I was able to follow the work, but some things are unprecise. If I would want to go deeper into the thesis' topic it would be probably hard. Also the justification of the methods is not well argumented.

Formal and language level, scope of thesis	D - satisfactory

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?
The written script contains unfinished or not well structured sentences. It is fine to understand but difficult to read. The structure of the work is – as already mentioned – ok and reasonable. Some subsections are probably too short to become a subsection but it is ok.

Selection of sources, citation correctness	C - good.

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?
There is no designated related work section and the work of others is entwined into the overall text. Citations are made, if the work of others is used but some more background would be useful.

Additional commentary and evaluation (optional)

> *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.*
> Please insert your comments here.

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.

In my opinion this work does not fully convince, the plots seem to be only a single run, which makes generalization complicated. Some statistical analysis would have been useful at this point.
Besides, having a test look on one of two real examples and to see the performance there should have been addressed, but it was not in the assignment.
This topic seems interesting and could be looked further into, yet I can not tell if these results are meaningful. At the end, this work seems unfinished.
That being said, the thesis' structure and results were satisfactory and the assignments were covered. Because the tasks also seemed a bit challenging, I would give this work a C-grade (Good).

Questions:
What is the motivation to use CNNs and not Recurrent Neuronal Networks?
According to your work is there a clear winning algorithm and could you justify your answer?

The grade that I award for the thesis is C - good.

26. 5. 2021
Date: ~~Click here and enter the date.~~