

ISS0023 2018 HW1

177188

"The mean square error achieved was 6.05×10^{-7} which is close to zero and less than 0.01"

What was MSE on the validation data set? 6.05×10^{-7} is the error on the training data set. It doesn't indicate the accuracy.

Task 2 - no validation of results.

184219

Task 2 - no numerical results. Validation code is correct, but no result after running the code is provided.

178180

Task 1

Proof that the trained network works correctly. Mean Square Error (MSE) on a validation set is less than 0.01. Validation set should consist of at least 100 points.

MSE is demonstrated only on the training data set. No validation set is defined. Data is not divided into training and validation data sets.

177303

For the second task "tansig" is not the best choice of the activation function. Sum is a linear function. "purelin" would work better

177186

What is the difference between MSE and nn_error (p.5)? Is this long vector 1.2 (p.5) really necessary to copy in the report? Why not present the result graphically? - the same about Task 2.

For the second task "tansig" is not the best choice of the activation function. Sum is a linear function. "purelin" would work better

177306

Results presented on Figure 1 are not on the validation data set, but on the training data set.

%validation

```
NN_out = sim(net, p_test);
```

```
error = NN_out-t_test;
```

```
MSE_test = mse(error);
```

These results are not presented.

The same about Task 2.

Also, For the second task "tansig" is not the best choice of the activation

function.

Sum is a linear function. "purelin" would work better

177308

"Here 5 inputs from (-100, 100) are taken" (page 3) - is it for Task 1?

MSE from screenshot 1 is not measured on the validation set.

"good results. Where MSE = 4.563623808853172e+02 "!!!??? Mean Square Error= 456 is not acceptable!

184230

Which activation functions did you use in the network for Task1 and Task 2?

177286

Why screenshots on page 3 are needed??? MSE on them doesn't show the error on the validation data set!

Task 2 - figures on page 5 doesn't show the result. They are just training screens.

No validation of results is presented.

177305

"**Validation checks = 0 at epoch 1000** This implies that test data is working " ???

"Error of 10 data: " - why 10? Validation set should consist of at least 100 points.

I cannot understand the results. You just list everything from the user interface screen.

165595

MSE from screenshots are not measured on the validation set. - The Sami is with Task 2.

Below is the validation set :

```
%Validation
```

```
NN_out=sim(net,INPUT_test);
```

```
error=OUTPUT_test-NN_out;
```

```
plot(1:100,error)
```

```
MSE_test=mse(error)
```

This figure is not presented. Why?

184215

Estimate minimal number of neurons in the hidden layer providing required accuracy (MSE on a validation set is less than 0.01)

177309

Task 2. No analysis and validation of results.

