

EXAM

156352

Task1: Too high oscillations, adaptation speed has to be reduced.

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Task1: Too high oscillations, adaptation speed has to be reduced.

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Task1: can the results be improved? How?

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Task1: No conclusions, no analysis

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Task2: Demonstrate that both systems (supervised and selflearning) are capable of recognizing correctly all images with noise level 0.17.

It is not clear how the results in the table on page 4 were obtained. Network outputs are not shown. How test results were obtained in case of supervised learning?

163058

Task2: Images with noise and without noise should belong to the same class. On page 13 it is done for images with noise, but not compared to distribution between classes in case of "perfect" images.

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Task1: "The task is to design a liquid level control system and prove its effectiveness on two given levels (different set points) and with input disturbances (additional not measurable input flow)."

The designed controller is not adaptive. Thus, doesn't work in case of disturbances

Task2: Only test, but not system design is presented.

"Demonstrate that both systems (supervised and selflearning) are capable of recognizing correctly all images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present it code in the report."

partly invisible symbols are tested only using supervised learning. net_c network is not used in these tests

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"Fig39: Self – Learning Test Result" - according to "Self - Learning Algorithm" on p.30, Yc demonstrates recognition without noise. Recognition of all images with noise using self-learning network is not shown.

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Task1: Nonadaptive control doesn't work. Something wrong with the data set or training...

Task2: "Demonstrate that both systems (supervised and selflearning) are capable of recognizing correctly all images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present this code in the report."

How do you make a conclusion that all images are recognized correctly?

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Recognition of all images with 17% noise using self-learning network is not demonstrated.

Figure 13: ...+randn(35,1)*0.0

So, test_out corresponds to recognition without noise.

Table on figure 18 shows that most of the images are not recognized.

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Task 1 - no solution, only control scheme

Task 2 -

1 - Image number N

2 - Image number 10+N

For N=3 - Gamma and Nu, not "alpha" and "delta".

No results of recognition by Self-learning network

178240

Task2: It is not shown that letters without noise and with 17% noise belong to the same classes in case of self-learning approach. So, we can not conclude that they are recognized correctly.

178250

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178190

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177355

Demonstrate that both systems (supervised and self-learning) are capable of recognizing correctly all images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present this code in the report.

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No numerical recognition results. Only images with noise are presented. They are inputs of the recognition system, but not the result.

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Figure 7 vs Figure 8 - Characters with noise are not recognized at all using SL method - numbers of classes for each letter are different.

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Demonstrate that both systems (supervised and self-learning) are capable of recognizing correctly ALL images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present this code in the report.

- Check if the system is capable of recognizing partly invisible symbols (upper, bottom, right or left part of the image is not visible = white)?
- Which part of the symbol has to be visible?

165585

Demonstrate that both systems (supervised and self-learning) are capable of recognizing correctly ALL images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present this code in the report.

For SL method, it is not done for all letters. test_out shows recognition of only one input image.

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Task 2: Number of experiments is not enough to make conclusions about recognition of partly invisible symbols and compare the results .

Task 3: Used data is from the homework not from the exam task

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"Check if the system is capable of recognizing partly invisible symbols (upper, bottom, right or left part of the image is not visible = white)?" - Not adding noise.

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Task4: Required control is not achieved. No analysis or even explanation of the results.

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Task 2: "Check if the system is capable of recognizing partly invisible symbols

(upper, bottom, right or left part of the image is not visible = white)?" - Not adding noise.

Task 4: Control doesn't satisfy the required criteria.

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Task 2: "15 neurons and 10 hidden layers " - according to figures 1 and 2, there is only one hidden layer.

No recognition results for unsupervised network.

Number of experiments is not enough to make conclusions about recognition of partly invisible symbols and compare the results .

Task 4: The development of the controller is not sufficiently explained, the control is presented in hundreds of seconds, while the task is to balance in 3 seconds. No explanations of this are given. Several set points are not investigated to the full. Generally a lack of analysis.

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Recognition of partly invisible images is made only using supervised NN.

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Demonstrate that both systems (supervised and self-learning) are capable of recognizing correctly ALL images with noise level 0.17. Do not test images one by one, but write a code for testing all images and present this code in the report.

Left bottom part of figure2 shows that letters are not recognized if we talk about supervised learning.

Figure 3 demonstrates recognition results only for two letters.

What does figure 16 mean? No recognition results for Unsupervised learning.

No classification result for Unsupervised learning

Recognition of partly invisible images is not analyzed ("Check if the system is capable of recognizing partly invisible symbols (upper, bottom, right or left part of the image is not visible = white)?")

165584

No analysis either comments. Just a set of screenshots with only some words between.

Task 4: Satisfactory control is not achieved, no comments. Figures representing test results are just lines without any legend or explanation.

Presented file can not be considered as a REPORT!