

## COMP / ELEC / STAT 502 Pizza Points

**Details of competition points**

Color codes: Red = 1 point, Blue = 0.5 point

Names in { } are tied

**HW04 Part I** -----HW04 P2 Best fit to  $1/x$  on test data

Group 3: Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

{Group 4: Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath}

{Group 5: Leo Liang, Sho Cong, Zidong Liu}

Group 7: Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati

**HW04** -----HW04 P2 Best fit to  $1/x$  on test data

Group 4: Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

Group 3: Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

{Group 1: Dan Burke, Drew Keller, Keshav Rao}

{Group 7: Ibrahim Emirahmetoglu}

HW04 P3 Best fit to  $1/x$  on test data

Group 4: Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

Group 3: Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

{Group 1: Dan Burke, Drew Keller, Keshav Rao}

{Group 7: Ibrahim Emirahmetoglu}

HW04 P3 Shortest training with same good fit to  $1/x$  on test dataHW04 P4 Best classification accuracy on iris test data

Groups 1, 2, 3, 4, 5, 7 (All groups except for Group 6 has 96% accuracy on test data)

Results generated with other than the prescribed version of the iris training and test sets (or different than the prescribed split to training and test data); and those which reported RMSE only (instead of classification accuracy) disqualified.

HW04 P4 Smallest network achieving >95% classification accuracy on iris test data

Results generated with other than the prescribed version of the iris training and test sets (or different than the prescribed split to training and test data); and those which reported RMSE only (instead of classification accuracy) disqualified. Also, only networks with <10 hidden PEs were considered since this classification can be done very well with 2-4 hidden PEs.

	# hidden PEs	accuracy	#Learning Steps
Group 7: Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati	2	96.0 %	13,275
Group 4: Kate Begland, Jorio CocolaOscar Leong, David Mildebrath	2	96.0 %	20,000
Group 5: ZidongLiu, JiachengLiang, ShuCong	2	96.0 %	50,000

**Quiz1** -----Scores above 90%, in descending order of score

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Scores between 80 - 90%, in descending order of score

{ Ibrahim Emirahmetoglu, Elliot Smith }

Kate Begland

Oscar Leong

**HW05** -----HW05 P1 Best average classification accuracy

Group

Test Accuracy

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati

96.8%

{ (G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath }

96%

{ (G5) ZidongLiu, JiachengLiang, ShuCong }

96%

HW05 P1 Most reliable classification with >90% accuracy

(G4) Kate Begland, Jorio CocolaOscar Leong, David Mildebrath

STD

0%

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

1%

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapat

1.17%

HW05 P2.2 Best fit

(G1) Dan Burke, Drew Keller, Keshav Rao

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapat

(G5) ZidongLiu, JiachengLiang, ShuCong

**HW06** -----HW6 P2 Best accuracies (provided results were produced correctly)

Group

Norm(WW'-I)

(G7)Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati

0.000156

(G5) ZidongLiu,JiachengLiang,ShuCong

0.0073

(Other groups didn't compare WW' with I, nor they gave any numerical error measures.)

HW6 P2 Best documentation

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati

(G5) ZidongLiu, JiachengLiang, ShuCong

(G4) Kate Begland, Jorio CocolaOscar Leong, David Mildebrath

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu

**HW07** -----HW7 P2 Best SOM learning (placement of prototypes in data space, four Gaussian clusters)

2D:

(G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

3D: No one did 3D

HW7 P2 Fastest SOM convergence (of correct learning)

(G1) Dan Burke, Drew Keller, Keshav Rao 100,000 steps

(G5) ZidongLiu, JiachengLiang, ShuCong 100,000 steps

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati 100,000 steps

HW7 P2 Best SOM density maps

(G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

(G5) ZidongLiu, JiachengLiang, ShuCong

(G7) Cody Peterson, Ibrahim Emirahmetoglu, Sai Chilakapati

HW7 P3 Best visualization of cluster delineation in SOM

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu

(G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

HW7 P4 Best cluster identification in SOM (iris)

(G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhan

HW7 P4 Best visualization of SOM's knowledge (iris) [only layered representations are awarded points]

(G4) Kate Begland, Jorio Cocola, Oscar Leong, David Mildebrath

(G3) Yanjun Yang, Panpan Zhou, Zhaoyang Zhang

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu

HW7 P5.b Best accuracies (provided results were produced correctly)

(G2) Jonathan Wang, Zhe Yu, Shikai Jin, Helen Lu 90.12%

(G1) Dan Burke, Drew Keller, Keshav Rao 88.03%

(G5) ZidongLiu, JiachengLiang, ShuCong 86.81%

(G6) Elliot Smith, Eugen Hruska, Varun Suriyanaranana 83.00%