

## COMP / ELEC / STAT 502 Pizza Points

### Details of competition points

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

Names in { } are tied

### HW04 -----

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

Cai & Wei, Hayes & Kornblau, Jankov & Smith, Jones & Mohammed, Wang Siran & Wang Zhifeng

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

Atkinson & Ekness, David & Groszman, Fung & Zheng

#### HW04 P4 Best classification accuracy on iris test data

Atkinson & Ekness, Cai & Wei, David & Groszman, Fung & Zheng, He & Li, Jankov & Smith, Wang Siran & Wang Zhifeng, Wang Yiqiu & Zeng Yulun

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
Atkinson & Ekness	2	97.0 %
Wang Siran & Wang Zhifeng	2	97.0 %
David & Groszman	2	97.0 %
Fung & Zheng	2	97.0 %
Hayes & Kornblau	2	96.0 %
Kalvapalle & Mostofa	2	96.0 %
Chen & Zhang Alison	2	96.0 %

### Quiz1 -----

#### Scores above 90%, in descending order of score

Songzhu (Sean) Zheng, Prashant Kalvapalle

#### Scores between 85 - 90%, in descending order of score

Kenny Groszman, Shoeb Ahmed Mohammed, John Chen, Zhifeng Wang, Siran (Adam) Wang, Eliot Smith

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

Atkinson &amp; Ekness, Cai &amp; Wei, David &amp; Groszman, Fung &amp; Zheng, Jankov &amp; Smith

HW05 P1 Most reliable classification with >90% accuracy

He &amp; Li, David &amp; Groszman, Fung &amp; Zheng, Jankov &amp; Smith, Kalvapalle &amp; Mostofa

(People who did their cross-validation incorrectly or it was unclear what they did disqualified.)

HW05 P2.2 Best fit

Chen &amp; Zhang Alison, Cai &amp; Wei, He &amp; Li, Kalvapalle &amp; Mostofa, Wang Siran &amp; Wang Zhifeng

**HW06** -----HW6 P2 Best SOM learning (placement of prototypes in data space)

Marin &amp; Wang Zhengjia, Fung &amp; Zheng, Hayes &amp; Kornblau, Wang Yiqiu &amp; Zeng Yulun, Lee &amp; Noe, David &amp; Groszman

HW6 P2 Fastest SOM convergence (of correct learning)

Wang Siran & Wang Zhifeng	1,000
Hayes & Kornblau	20,000
Lee & Noe	30,000
Marin & Wang Zhengjia	50,000
Atkinson & Ekness	60,000
David & Groszman	100,000
Fung & Zheng	100,000

HW6 P2 Best SOM density maps

Chen &amp; Zhang Alison, David &amp; Groszman, Fung &amp; Zheng, Hayes &amp; Kornblau, Marin &amp; Wang Zhengjia

HW6 P3 Best visualization of cluster delineation in SOM

Mohammed, Marin &amp; Wang Zhengjia, Fung &amp; Zheng, Jankov, Jasperson &amp; Pham

HW6 P4 Best cluster identification in SOM (iris)

Atkinson &amp; Ekness, David &amp; Groszman, Hayes &amp; Kornblau, Wang Yiqiu &amp; Zeng Yulun, Noe &amp; Lee

HW6 P4 Best visualization of SOM's knowledge (iris) [only layered representations awarded points]

David &amp; Groszman, Hayes &amp; Kornblau, Wang Yiqiu &amp; Zeng Yulun, Mohammed, Noe &amp; Lee

**HW07** -----HW7 P1.b Best classification (provided results were produced correctly)

Name	Classification Accuracy (%)
Lee & Noe	93.8
Mohammed	93.0
Hayes & Kornblau	89.2
Wang Siran & Wang Zhifeng	86.1
Fung & Zheng	83.9
He & Li	82.0

HW7 P2 Best accuracies (provided results were produced correctly)

Atkinson & Ekness, David & Groszman, Fung & Zheng, Hayes & Kornblau, He & Li

HW7 P2 Best documentation

Mohammed, Jankov, Kalvapalle & Mostofa, Lee & Noe, He & Li

## Exam1 -----

Exam1 P1 Best Ocelot reconstruction

Learning efforts for equally good quality 4:1 compression / reconstruction are listed (provided clear reporting of results)

Name	# learn steps	On-line / Batch	Batch size	learn rate	PP
Jankov	4,000	On-line	1	0.5 – 0.1	3
Pham	20,000	On-line	1	0.03	3
David	35,000	On-line	1	0.04-0.005	3
Zhe. Wang	37,400	On-line	1	0.03 – 0.018	3
S. Zheng	50,000	On-line	1	0.05	3
J. Chen	40-60,000	On-line	1	0.03	3
Zhi. Wang	60,000	Batch	20	0.2	3
Fung	80,000	On-line	1	0.1 -0.05	3
Y. Wang	100,000	On-line	1	0.03 -0.015	2
Lee	100,000	On-line	1	0.06	2
Groszman	200,000	On-line	1	0.01	2
Ekness	844,800	Batch	768	0.00023	1
Atkinson	1,350,144	Batch	768	0.001	1
Mohammed	1,536,000	On-line	1	0.0005	1
S. Wang	3,000,000	Batch	10	0.05-.0001	1
Kornblau	6,400,000	Batch	64	0.01	1
Hayes	9,600,000	Batch	192	0.00005	1
Li	53,860,000	Batch	768	0.0004	1
He	61,440,000	Batch	768	0.00005	1

**Quiz2** -----

Scores above 90%, in descending order of score

None.

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

Shoeb Mohammed

Scores between 75 - 80%, in descending order of score

Dimitrije Jankov, Prashant Kalvapalle, John Chen

**Points for error correction or providing other help  
(1 each unless shown differently)**

James Lee (1/15, CF2/2 p27 Example)

Alex Hayes (1/17, Piazza; 4/13 Piazza)

Alberto Fung (1/27, minor error in errcorr.m)

Zhuo Chen (1/29, minor error in errcorr.m, reported independently)

Yiqiu (Bill) Wang (2/1, typo in L4.1\_ConstructSimpleLyapunovFunction.pdf)

Siran Wang(2) (4/5 problem solution)

Yiqiu Wang (4/?, error in L16, GC)

**In-class points (1 each unless otherwise indicated)****02-Feb-2017**

Dimitrije Jankov, Yiqiu (Bill) Wang, Jeremy David, Songzhu (Sean) Zheng, John Chen

**07-Feb-2017**

Jeremy David, Prashant Kalvapalle, Kenny Groszmann, Jake Kornblau

**14-Feb-2017**

Jeremy David, Felix Ekness, Jake Kornblau, Dimitrije Jankov, Yiqiu (Bill) Wang

**28-Feb-2017**

Dimitrije Jankov, Yiqiu (Bill) Wang, Jake Kornblau (2), Alberto Fung (2)

**09-March-2017**

Alex Hayes, John Chen, Jake Kornblau, Kenny Groszmann, Jeremy David

**06-Apr-2017**

Jake Kornblau (3)