

1000

- Figure 2. *in vivo* and *in vitro* effects of the

100

Week 2 - Sample Means

1122 J. B. J. van den Brink et al.

Journal of

Overall Totals			
(total)	211.00%	79.1100	
Immediate			
yes	17.01%	40.9707	
no	194.8481	38.1315	
(total)	211.00%	79.1100	
Class			
no-recurrence-events	149.7021	15.2979	
recurrence-events	41.1879	44.8127	
(total)	211.00%	79.1100	
Outlier			
no	211.00%	79.1100	
yes	1	1	
(total)	211.00%	79.1100	
ExtremeValue			
no	211.00%	79.1100	
yes	1	1	
(total)	211.00%	79.1100	

Time taken to build model (full training data) : 0.43 seconds

*** Model and evaluation on training set ***

Cheng et al. • *CaMKII α and β in the Hippocampus*

© 2011 J. Wiley

176 2473

Example 1: A 1000 kg car is moving at 10 m/s. What is its momentum?

Cluster

Choose **SimpleKMeans -w 0 -max-iterations 1000 -min-distance 2.0 -k 2 -c 0.1 -A NaiveBayesOutlook -B FirstLeaf - KC -num-sets 1 -c 10**

Cluster mode

- ☒ Use training set
- ☐ Supplied test set
- ☐ Percentage split
- ☐ Cluster to cluster evaluation
- ☒ Save clusters for visualization

ignore attributes

Start

Stop

Result list (right-click for options)

10/27/22 - SimpleKMeans

Cluster output

Cluster 0: 15-16,0-2,no,2,no,no-recurrence-events,50,50
Cluster 1: 17-18,0-2,yes,3,50,recurrence-events,50,50

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Cluster#		
	0 (284.0)	1 (210.0)	2 (94.0)
subset-size	20-24	20-24	30-34
axi-noise	0-2	0-2	0-2
node-type	50	50	99
deg-malig	2	2	3
irradiat	50	50	50
Class	no-recurrence-events	no-recurrence-events	recurrence-events
Outlier	50	50	50
ExtremValue	50	50	50

Time taken to build model (1.4 training data) = 0.02 seconds

*** Model and evaluation are training set ***

Clustered instances

0 250 (84%)
1 34 (12%)

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Open file...

Open URL...

Open DB...

Generate...

Undo

Edit...

Save...

Filter

Chose: InterquartileRange: R2:0.93:1.0:1

Apply

Stop

Current relation

Relation: breast-cancer-wdbc.Filter:supervised.attribute.AttributeSelection-Fewest.attributeSelect...

Attributes: 8

Instances: 285

Sum of weights: 285

All attributes

All

None

Insert

Pattern

No.

Name

1

☒ tumor-size

2

☐ inv-nodes

3

☐ node-caps

4

☐ deg-malign

5

☐ mediat

6

☐ Class

7

☐ Outlier

8

☐ ExtremeValue

Remove

Selected attribute

Name: tumor-size

Missing: 0 (0%)

Distribution: 11

Type: Nominal

Unique: 6 (5%)

No.	Label	Count	Weight
1	0-4	6	6
2	5-6	4	4
3	10-14	28	28
4	15-19	30	30
5	20-24	50	50
6	25-29	54	54
7	30-34	60	60
8	35-39	19	19
9	40-44	22	22

Class: ExtremeValue (Nom)

Visualize All

Label	Count
0-4	6
5-6	4
10-14	28
15-19	30
20-24	50
25-29	54
30-34	60
35-39	19
40-44	22

Status: OK

Log

x 0

Weka Explorer

Supervised

Classify

Cluster

Associate

Select attributes

Visualize

Open file...

Open URL...

Open DB...

Connect...

Load...

Filter...

Save...

Filter

Choose

Replace missing values

Apply

Stop

Current relation

Relation: breast-cancer-weka.filters.supervised.attribute.AttributeSelection-In-weka.attributeSelect...

instances: 286

Attributes: 6

Sum of weights: 268

Attributes

All

None

Invert

Pattern

No.	Name
1	human-size
2	inv-nodes
3	node-caps
4	deg-maxq
5	modest
6	Class

Remove

Selected attribute

Name	Class	Missing	0 (0%)
1	normal/abnormal events		201
2	recurrence/never		85

Class: Class (Nom)

Visualize All

201

85

Status

OK

Log

0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Open File...

Open URL...

Open DB...

Generate...

Undo

Redo

Save...

Filter

Close

InterquartileRange: 92.0 93.0 : 1.1

Apply

Stop

Current relation

Relation: breast-wdbc-wdbc.filter.supervised.attribute.AttributeSelection.FractionAttributeSelected...
instances: 285

Attributes: 8
Size of output: 285

Attributes

All

None

Input

Output

No.

Name

☒ tumor-size

☐ no-nodes

☐ node-caps

☐ deg-maly

☐ mediat

☐ Class

☐ Outlier

☐ to-brms/Value

Percentage

Selected attribute

Name: tumor-size
Missing: 0 (0%)

Values: 11

Type: Nominal
Missing: 0 (0%)

No.	Label	Count	Weight
1	0-1	6	6
2	1-4	1	1
3	10-14	28	28
4	15-19	30	30
5	20-24	50	50
6	25-29	54	54
7	30-34	60	60
8	35-39	19	19
9	40-44	22	22

Close Relation/Value (Menu)

Visualize All

Close Relation/Value (Menu)

Visualize All

Bar chart showing the distribution of tumor-size values. The x-axis represents the tumor-size labels (0-1, 1-4, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44) and the y-axis represents the count. The counts are: 6, 1, 28, 30, 50, 54, 60, 19, 22.

Log

