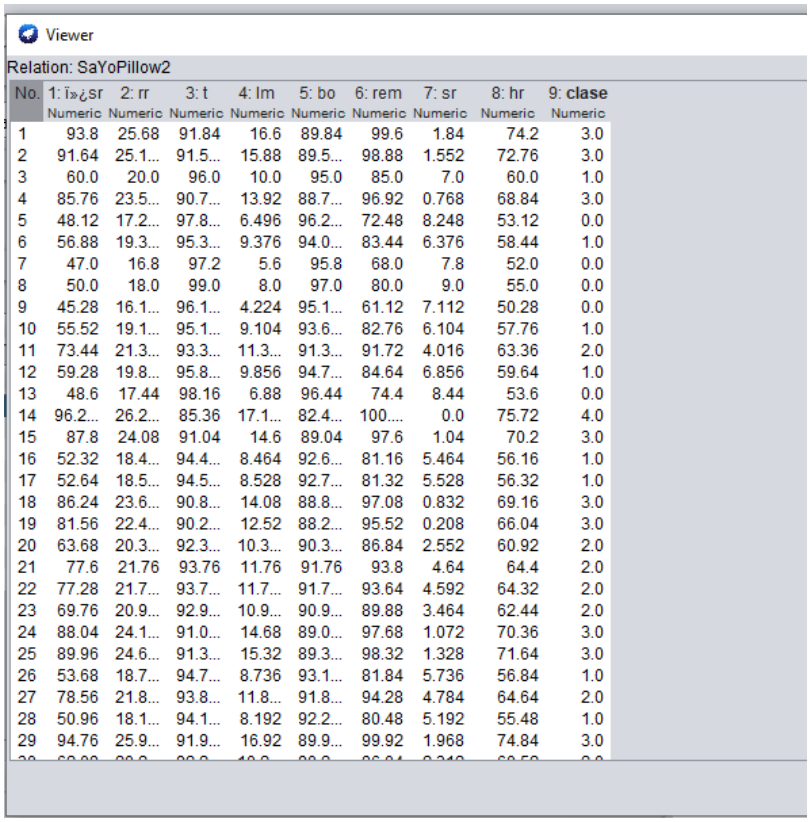
2. Del dataset anterior realice en WEKA, tres algoritmos de preprocesamiento.

1er Preprocesamiento

ReplaceMissingValues Reemplaza todos los valores indefinidos por la moda en el caso de que sea un atributo nominal o la media aritmética si es un atributo numérico.



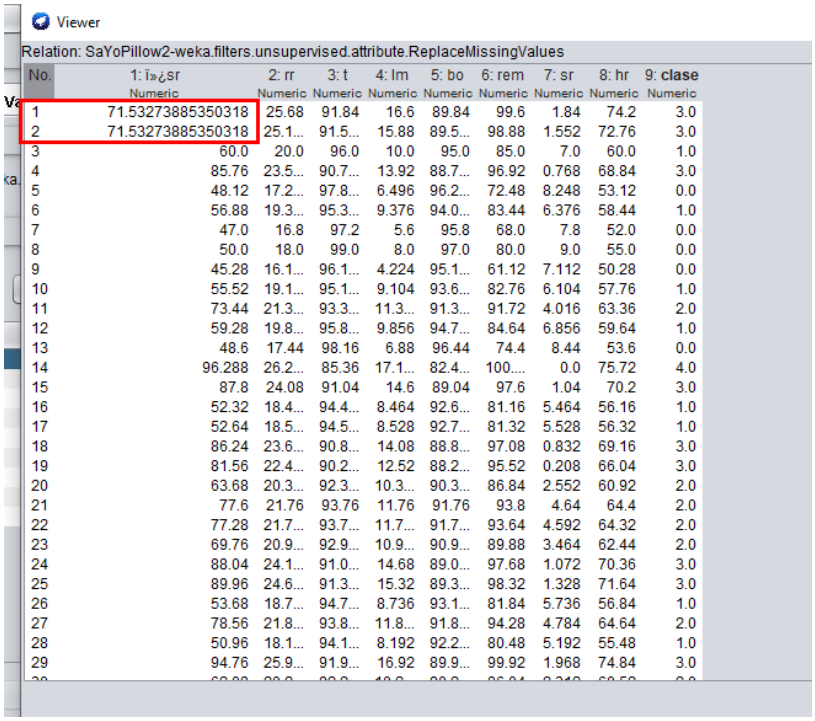
Viewer

Relation: SaYoPillow2

No.	1: ï»¿sr Numeric	2: rr Numeric	3: t Numeric	4: lm Numeric	5: bo Numeric	6: rem Numeric	7: sr Numeric	8: hr Numeric	9: clase Numeric
1	93.8	25.68	91.84	16.6	89.84	99.6	1.84	74.2	3.0
2	91.64	25.1...	91.5...	15.88	89.5...	98.88	1.552	72.76	3.0
3	60.0	20.0	96.0	10.0	95.0	85.0	7.0	60.0	1.0
4	85.76	23.5...	90.7...	13.92	88.7...	96.92	0.768	68.84	3.0
5	48.12	17.2...	97.8...	6.496	96.2...	72.48	8.248	53.12	0.0
6	56.88	19.3...	95.3...	9.376	94.0...	83.44	6.376	58.44	1.0
7	47.0	16.8	97.2	5.6	95.8	68.0	7.8	52.0	0.0
8	50.0	18.0	99.0	8.0	97.0	80.0	9.0	55.0	0.0
9	45.28	16.1...	96.1...	4.224	95.1...	61.12	7.112	50.28	0.0
10	55.52	19.1...	95.1...	9.104	93.6...	82.76	6.104	57.76	1.0
11	73.44	21.3...	93.3...	11.3...	91.3...	91.72	4.016	63.36	2.0
12	59.28	19.8...	95.8...	9.856	94.7...	84.64	6.856	59.64	1.0
13	48.6	17.44	98.16	6.88	96.44	74.4	8.44	53.6	0.0
14	96.2...	26.2...	85.36	17.1...	82.4...	100....	0.0	75.72	4.0
15	87.8	24.08	91.04	14.6	89.04	97.6	1.04	70.2	3.0
16	52.32	18.4...	94.4...	8.464	92.6...	81.16	5.464	56.16	1.0
17	52.64	18.5...	94.5...	8.528	92.7...	81.32	5.528	56.32	1.0
18	86.24	23.6...	90.8...	14.08	88.8...	97.08	0.832	69.16	3.0
19	81.56	22.4...	90.2...	12.52	88.2...	95.52	0.208	66.04	3.0
20	63.68	20.3...	92.3...	10.3...	90.3...	86.84	2.552	60.92	2.0
21	77.6	21.76	93.76	11.76	91.76	93.8	4.64	64.4	2.0
22	77.28	21.7...	93.7...	11.7...	91.7...	93.64	4.592	64.32	2.0
23	69.76	20.9...	92.9...	10.9...	90.9...	89.88	3.464	62.44	2.0
24	88.04	24.1...	91.0...	14.68	89.0...	97.68	1.072	70.36	3.0
25	89.96	24.6...	91.3...	15.32	89.3...	98.32	1.328	71.64	3.0
26	53.68	18.7...	94.7...	8.736	93.1...	81.84	5.736	56.84	1.0
27	78.56	21.8...	93.8...	11.8...	91.8...	94.28	4.784	64.64	2.0
28	50.96	18.1...	94.1...	8.192	92.2...	80.48	5.192	55.48	1.0
29	94.76	25.9...	91.9...	16.92	89.9...	99.92	1.968	74.84	3.0

ReplaceaMissingValues

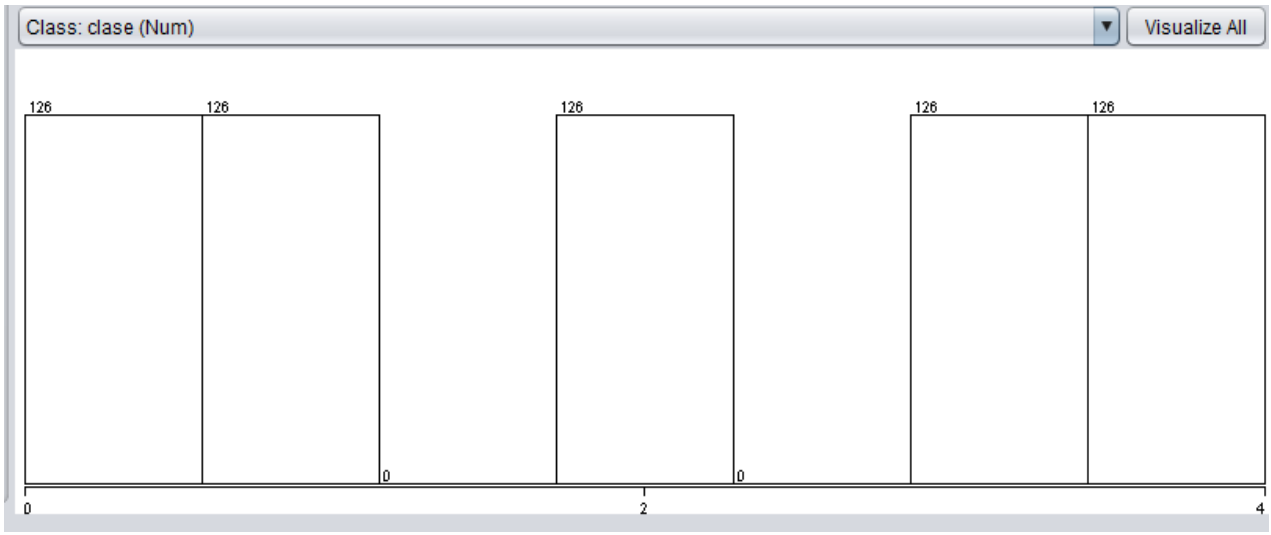
Media , a Moda



Viewer

Relation: SaYoPillow2-weka.filters.unsupervised.attribute.ReplaceMissingValues

No.	1: ï»¿sr Numeric	2: rr Numeric	3: t Numeric	4: lm Numeric	5: bo Numeric	6: rem Numeric	7: sr Numeric	8: hr Numeric	9: clase Numeric
1	71.53273885350318	25.68	91.84	16.6	89.84	99.6	1.84	74.2	3.0
2	71.53273885350318	25.1...	91.5...	15.88	89.5...	98.88	1.552	72.76	3.0
3	60.0	20.0	96.0	10.0	95.0	85.0	7.0	60.0	1.0
4	85.76	23.5...	90.7...	13.92	88.7...	96.92	0.768	68.84	3.0
5	48.12	17.2...	97.8...	6.496	96.2...	72.48	8.248	53.12	0.0
6	56.88	19.3...	95.3...	9.376	94.0...	83.44	6.376	58.44	1.0
7	47.0	16.8	97.2	5.6	95.8	68.0	7.8	52.0	0.0
8	50.0	18.0	99.0	8.0	97.0	80.0	9.0	55.0	0.0
9	45.28	16.1...	96.1...	4.224	95.1...	61.12	7.112	50.28	0.0
10	55.52	19.1...	95.1...	9.104	93.6...	82.76	6.104	57.76	1.0
11	73.44	21.3...	93.3...	11.3...	91.3...	91.72	4.016	63.36	2.0
12	59.28	19.8...	95.8...	9.856	94.7...	84.64	6.856	59.64	1.0
13	48.6	17.44	98.16	6.88	96.44	74.4	8.44	53.6	0.0
14	96.288	26.2...	85.36	17.1...	82.4...	100....	0.0	75.72	4.0
15	87.8	24.08	91.04	14.6	89.04	97.6	1.04	70.2	3.0
16	52.32	18.4...	94.4...	8.464	92.6...	81.16	5.464	56.16	1.0
17	52.64	18.5...	94.5...	8.528	92.7...	81.32	5.528	56.32	1.0
18	86.24	23.6...	90.8...	14.08	88.8...	97.08	0.832	69.16	3.0
19	81.56	22.4...	90.2...	12.52	88.2...	95.52	0.208	66.04	3.0
20	63.68	20.3...	92.3...	10.3...	90.3...	86.84	2.552	60.92	2.0
21	77.6	21.76	93.76	11.76	91.76	93.8	4.64	64.4	2.0
22	77.28	21.7...	93.7...	11.7...	91.7...	93.64	4.592	64.32	2.0
23	69.76	20.9...	92.9...	10.9...	90.9...	89.88	3.464	62.44	2.0
24	88.04	24.1...	91.0...	14.68	89.0...	97.68	1.072	70.36	3.0
25	89.96	24.6...	91.3...	15.32	89.3...	98.32	1.328	71.64	3.0
26	53.68	18.7...	94.7...	8.736	93.1...	81.84	5.736	56.84	1.0
27	78.56	21.8...	93.8...	11.8...	91.8...	94.28	4.784	64.64	2.0
28	50.96	18.1...	94.1...	8.192	92.2...	80.48	5.192	55.48	1.0
29	94.76	25.9...	91.9...	16.92	89.9...	99.92	1.968	74.84	3.0



Viewer

Relation: SaYoPillow2-weka.filters.unsupervised.attribute.ReplaceMissingValues

No.	1: ï»¿sr	2: rr	3: t	4: lm	5: bo	6: rem	7: sr	8: hr	9: clase
	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric
1	71.5...	25.68	91.84	16.6	89.84	99.6	1.84	74.2	
2	71.5...	25.1...	91.5...	15.88	89.5...	98.88	1.552	72.76	
3	60.0	20.0	96.0	10.0	95.0	85.0	7.0	60.0	1.0
4	85.76	23.5...	90.7...	13.92	88.7...	96.92	0.768	68.84	3.0
5	48.12	17.2...	97.8...	6.496	96.2...	72.48	8.248	53.12	0.0
6	56.88	19.3...	95.3...	9.376	94.0...	83.44	6.376	58.44	1.0
7	47.0	16.8	97.2	5.6	95.8	68.0	7.8	52.0	0.0
8	50.0	18.0	99.0	8.0	97.0	80.0	9.0	55.0	0.0
9	45.28	16.1...	96.1...	4.224	95.1...	61.12	7.112	50.28	0.0
10	55.52	19.1...	95.1...	9.104	93.6...	82.76	6.104	57.76	1.0
11	73.44	21.3...	93.3...	11.3...	91.3...	91.72	4.016	63.36	2.0
12	59.28	19.8...	95.8...	9.856	94.7...	84.64	6.856	59.64	1.0
13	48.6	17.44	98.16	6.88	96.44	74.4	8.44	53.6	0.0
14	96.2...	26.2...	85.36	17.1...	82.4...	100....	0.0	75.72	4.0
15	87.8	24.08	91.04	14.6	89.04	97.6	1.04	70.2	3.0
16	52.32	18.4...	94.4...	8.464	92.6...	81.16	5.464	56.16	1.0
17	52.64	18.5...	94.5...	8.528	92.7...	81.32	5.528	56.32	1.0
18	86.24	23.6...	90.8...	14.08	88.8...	97.08	0.832	69.16	3.0
19	81.56	22.4...	90.2...	12.52	88.2...	95.52	0.208	66.04	3.0
20	63.68	20.3...	92.3...	10.3...	90.3...	86.84	2.552	60.92	2.0
21	77.6	21.76	93.76	11.76	91.76	93.8	4.64	64.4	2.0
22	77.28	21.7...	93.7...	11.7...	91.7...	93.64	4.592	64.32	2.0
23	69.76	20.9...	92.9...	10.9...	90.9...	89.88	3.464	62.44	2.0
24	88.04	24.1...	91.0...	14.68	89.0...	97.68	1.072	70.36	3.0
25	89.96	24.6...	91.3...	15.32	89.3...	98.32	1.328	71.64	3.0
26	53.68	18.7...	94.7...	8.736	93.1...	81.84	5.736	56.84	1.0
27	78.56	21.8...	93.8...	11.8...	91.8...	94.28	4.784	64.64	2.0
28	50.96	18.1...	94.1...	8.192	92.2...	80.48	5.192	55.48	1.0
29	94.76	25.9...	91.9...	16.92	89.9...	99.92	1.968	74.84	3.0

weka.gui.GenericObjectEditor

weka.filters.unsupervised.attribute.ReplaceMissingValues

About

Replaces all missing values for nominal and numeric attributes in a dataset with the modes and means from the training data.

More

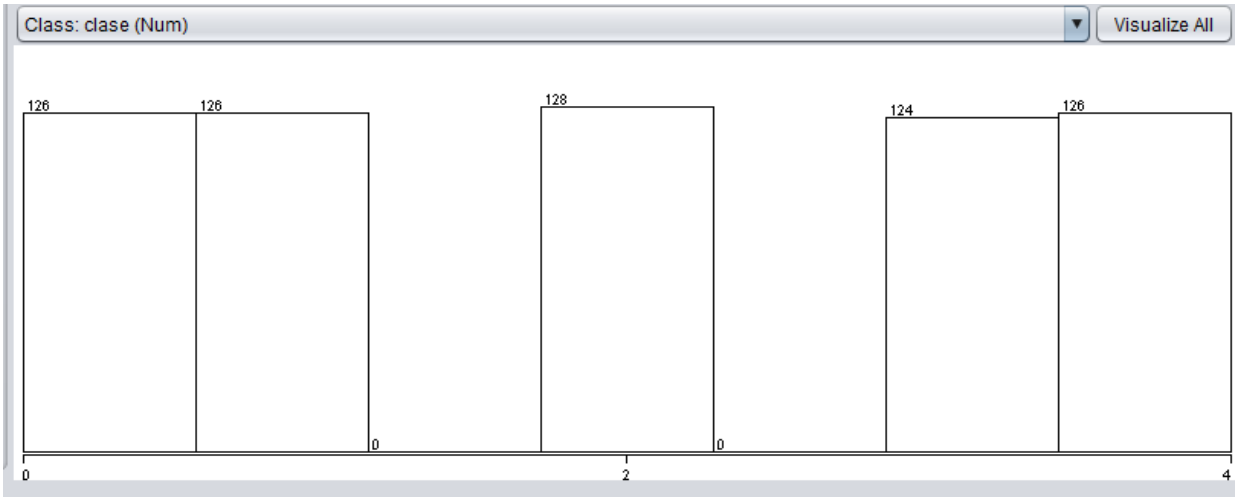
Capabilities

debug: False

doNotCheckCapabilities: False

ignoreClass: True

Open... Save... OK Cancel



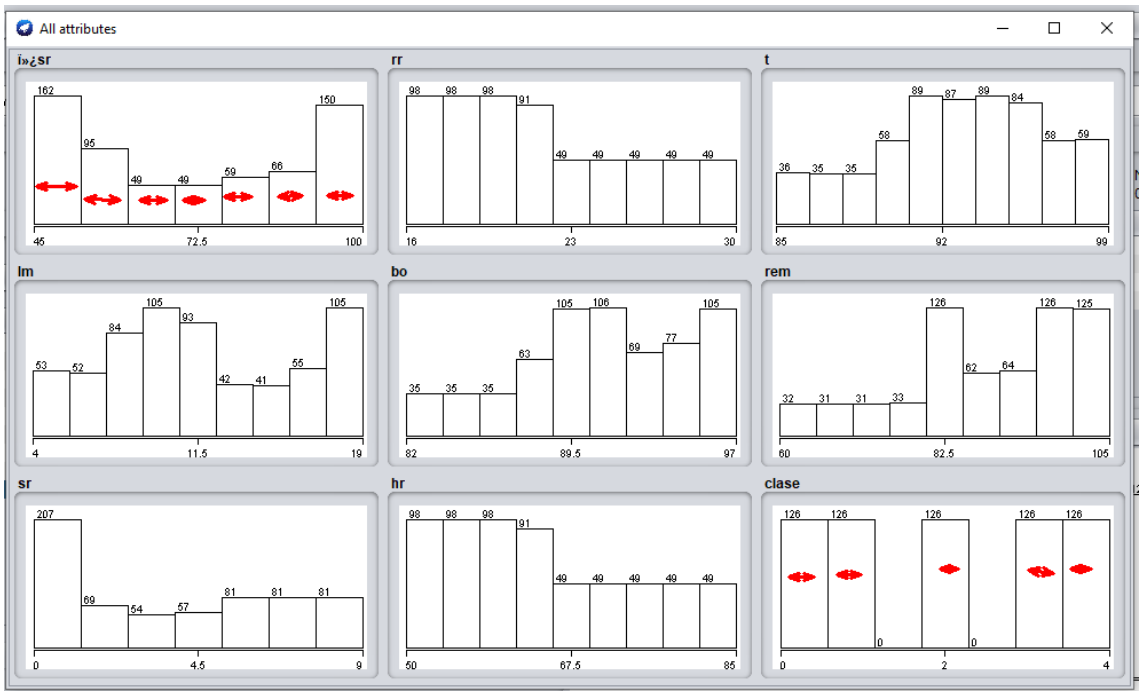
Viewer

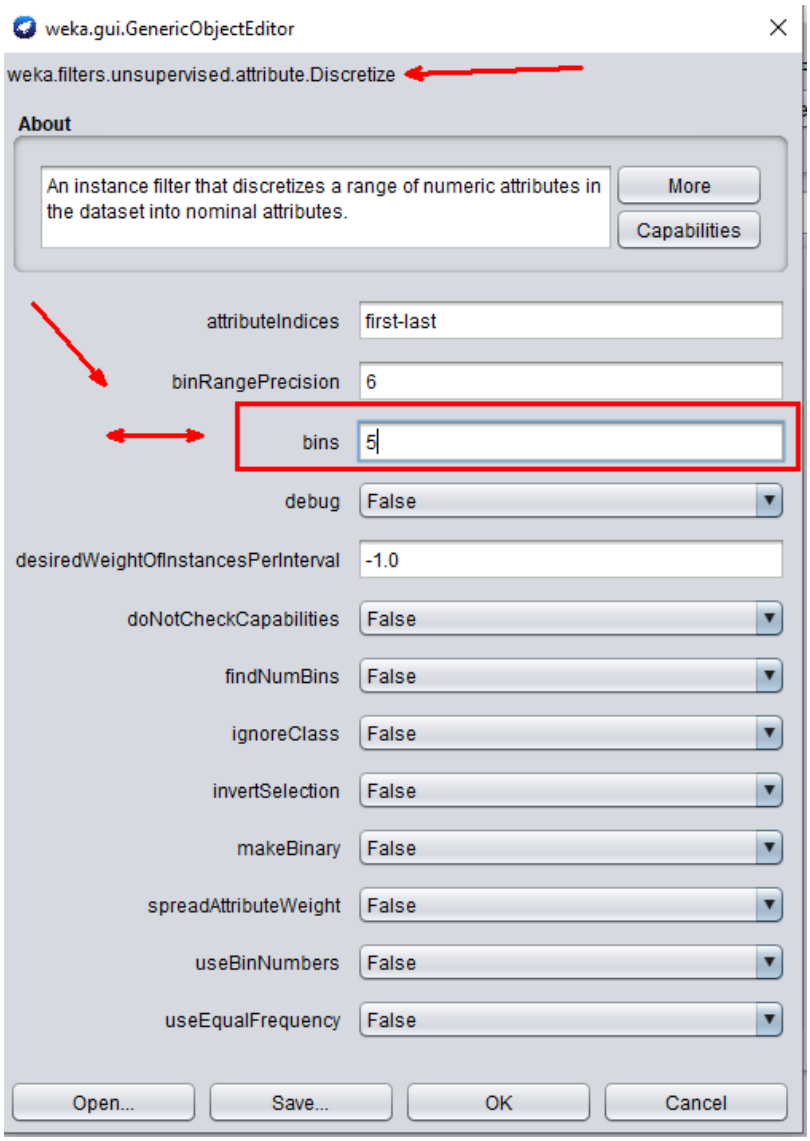
Relation: SaYoPillow2-weka.filters.unsupervised.attribute.ReplaceMissingValues-weka.filters.unsupervised.attribut

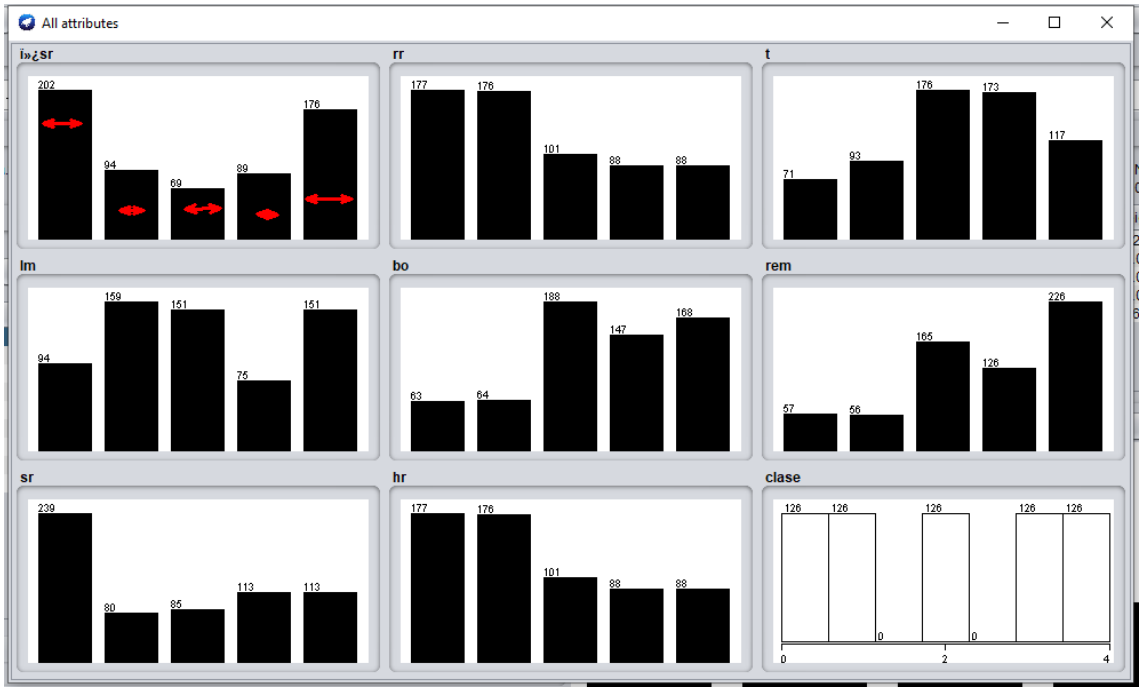
No.	1: ï»¿sr Numeric	2: rr Numeric	3: t Numeric	4: lm Numeric	5: bo Numeric	6: rem Numeric	7: sr Numeric	8: hr Numeric	9: clase Numeric
1	71.5...	25.68	91.84	16.6	89.84	99.6	1.84	74.2	1.9968152866242037
2	71.5...	25.1...	91.5...	15.88	89.5...	98.88	1.552	72.76	1.9968152866242037
3	60.0	20.0	96.0	10.0	95.0	85.0	7.0	60.0	1.0
4	85.76	23.5...	90.7...	13.92	88.7...	96.92	0.768	68.84	3.0
5	48.12	17.2...	97.8...	6.496	96.2...	72.48	8.248	53.12	0.0
6	56.88	19.3...	95.3...	9.376	94.0...	83.44	6.376	58.44	1.0
7	47.0	16.8	97.2	5.6	95.8	68.0	7.8	52.0	0.0
8	50.0	18.0	99.0	8.0	97.0	80.0	9.0	55.0	0.0
9	45.28	16.1...	96.1...	4.224	95.1...	61.12	7.112	50.28	0.0
10	55.52	19.1...	95.1...	9.104	93.6...	82.76	6.104	57.76	1.0
11	73.44	21.3...	93.3...	11.3...	91.3...	91.72	4.016	63.36	2.0
12	59.28	19.8...	95.8...	9.856	94.7...	84.64	6.856	59.64	1.0
13	48.6	17.44	98.16	6.88	96.44	74.4	8.44	53.6	0.0
14	96.2...	26.2...	85.36	17.1...	82.4...	100....	0.0	75.72	4.0
15	87.8	24.08	91.04	14.6	89.04	97.6	1.04	70.2	3.0
16	52.32	18.4...	94.4...	8.464	92.6...	81.16	5.464	56.16	1.0
17	52.64	18.5...	94.5...	8.528	92.7...	81.32	5.528	56.32	1.0
18	86.24	23.6...	90.8...	14.08	88.8...	97.08	0.832	69.16	3.0
19	81.56	22.4...	90.2...	12.52	88.2...	95.52	0.208	66.04	3.0
20	63.68	20.3...	92.3...	10.3...	90.3...	86.84	2.552	60.92	2.0
21	77.6	21.76	93.76	11.76	91.76	93.8	4.64	64.4	2.0
22	77.28	21.7...	93.7...	11.7...	91.7...	93.64	4.592	64.32	2.0
23	69.76	20.9...	92.9...	10.9...	90.9...	89.88	3.464	62.44	2.0
24	88.04	24.1...	91.0...	14.68	89.0...	97.68	1.072	70.36	3.0
25	89.96	24.6...	91.3...	15.32	89.3...	98.32	1.328	71.64	3.0
26	53.68	18.7...	94.7...	8.736	93.1...	81.84	5.736	56.84	1.0
27	78.56	21.8...	93.8...	11.8...	91.8...	94.28	4.784	64.64	2.0
28	50.96	18.1...	94.1...	8.192	92.2...	80.48	5.192	55.48	1.0
29	94.76	25.9...	91.9...	16.92	89.9...	99.92	1.968	74.84	3.0

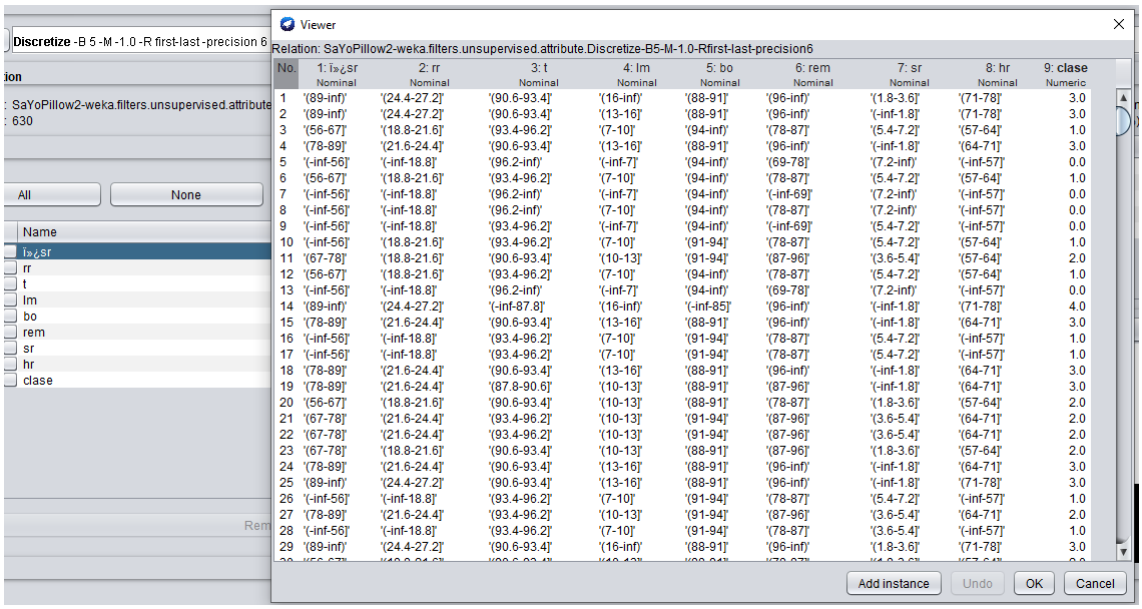
2do Preprocesamiento

Discretize Discretiza un conjunto de valores numéricos en rangos de datos. Como parámetros toma los índices de los atributos discretizar (attribute indices) y el número de particiones en que queremos que divida los datos (bins). Si queremos que las particiones las realice por la frecuencia de los datos y no por el tamaño de estas tenemos la opción useEqual-Frecuency. Si tenemos activa esta última opción podemos variar el peso de las instancias para la definición de los intervalos con la opción DesiredWeightOfInstancesPerInterval. Si, al contrario tenemos en cuenta el número de instancias para la creación de intervalos podemos usar findNumBins que optimiza el procedimiento de confección de los mismos. Otras opciones son makeBinary que convierte los atributos en binario e invertSelection que invierte el rango de los atributos elegidos.




weka.gui.GenericObjectEditor
weka.filters.unsupervised.attribute.Discretize
About
An instance filter that discretizes a range of numeric attributes in the dataset into nominal attributes.
More
Capabilities
attributeIndices
first-last
binRangePrecision
6
bins
5
debug
False
desiredWeightOfInstancesPerInterval
-1.0
doNotCheckCapabilities
False
findNumBins
False
ignoreClass
False
invertSelection
False
makeBinary
False
spreadAttributeWeight
False
useBinNumbers
False
useEqualFrequency
False
Open...
Save...
OK
Cancel


All attributes
i»¿sr
rr
t
lm
bo
rem
sr
hr
clase


Discretize -B 5 -M -1.0 -R first-last -precision 6
SaYoPillow2-weka.filters.unsupervised.attribute
630
All
None
Name
ï»¿sr
rr
t
lm
bo
rem
sr
hr
clase
Viewer
Relation: SaYoPillow2-weka.filters.unsupervised.attribute.Discretize-B5-M-1.0-Rfirst-last-precision6
No. 1: ï»¿sr Nominal 2: rr Nominal 3: t Nominal 4: lm Nominal 5: bo Nominal 6: rem Nominal 7: sr Nominal 8: hr Nominal 9: clase Numeric
1 '(89-inf)' '(24.4-27.2]' '(90.6-93.4]' '(16-inf)' '(88-91]' '(96-inf)' '(1.8-3.6]' '(71-78]' 3.0
2 '(89-inf)' '(24.4-27.2]' '(90.6-93.4]' '(13-16]' '(88-91]' '(96-inf)' '(-inf-1.8]' '(71-78]' 3.0
3 '(56-67]' '(18.8-21.6]' '(93.4-96.2]' '(7-10]' '(94-inf)' '(78-87]' '(5.4-7.2]' '(57-64]' 1.0
4 '(78-89]' '(21.6-24.4]' '(90.6-93.4]' '(13-16]' '(88-91]' '(96-inf)' '(-inf-1.8]' '(64-71]' 3.0
5 '(-inf-56]' '(-inf-18.8]' '(96.2-inf)' '(-inf-7]' '(94-inf)' '(69-78]' '(7.2-inf)' '(-inf-57]' 0.0
6 '(56-67]' '(18.8-21.6]' '(93.4-96.2]' '(7-10]' '(94-inf)' '(78-87]' '(5.4-7.2]' '(57-64]' 1.0
7 '(-inf-56]' '(-inf-18.8]' '(96.2-inf)' '(-inf-7]' '(94-inf)' '(-inf-69]' '(7.2-inf)' '(-inf-57]' 0.0
8 '(-inf-56]' '(-inf-18.8]' '(96.2-inf)' '(7-10]' '(94-inf)' '(78-87]' '(7.2-inf)' '(-inf-57]' 0.0
9 '(-inf-56]' '(-inf-18.8]' '(93.4-96.2]' '(-inf-7]' '(94-inf)' '(-inf-69]' '(5.4-7.2]' '(-inf-57]' 0.0
10 '(-inf-56]' '(18.8-21.6]' '(93.4-96.2]' '(7-10]' '(91-94]' '(78-87]' '(5.4-7.2]' '(57-64]' 1.0
11 '(67-78]' '(18.8-21.6]' '(90.6-93.4]' '(10-13]' '(91-94]' '(87-96]' '(3.6-5.4]' '(57-64]' 2.0
12 '(56-67]' '(18.8-21.6]' '(93.4-96.2]' '(7-10]' '(94-inf)' '(78-87]' '(5.4-7.2]' '(57-64]' 1.0
13 '(-inf-56]' '(-inf-18.8]' '(96.2-inf)' '(-inf-7]' '(94-inf)' '(69-78]' '(7.2-inf)' '(-inf-57]' 0.0
14 '(89-inf)' '(24.4-27.2]' '(-inf-87.8]' '(16-inf)' '(-inf-85]' '(96-inf)' '(-inf-1.8]' '(71-78]' 4.0
15 '(78-89]' '(21.6-24.4]' '(90.6-93.4]' '(13-16]' '(88-91]' '(96-inf)' '(-inf-1.8]' '(64-71]' 3.0
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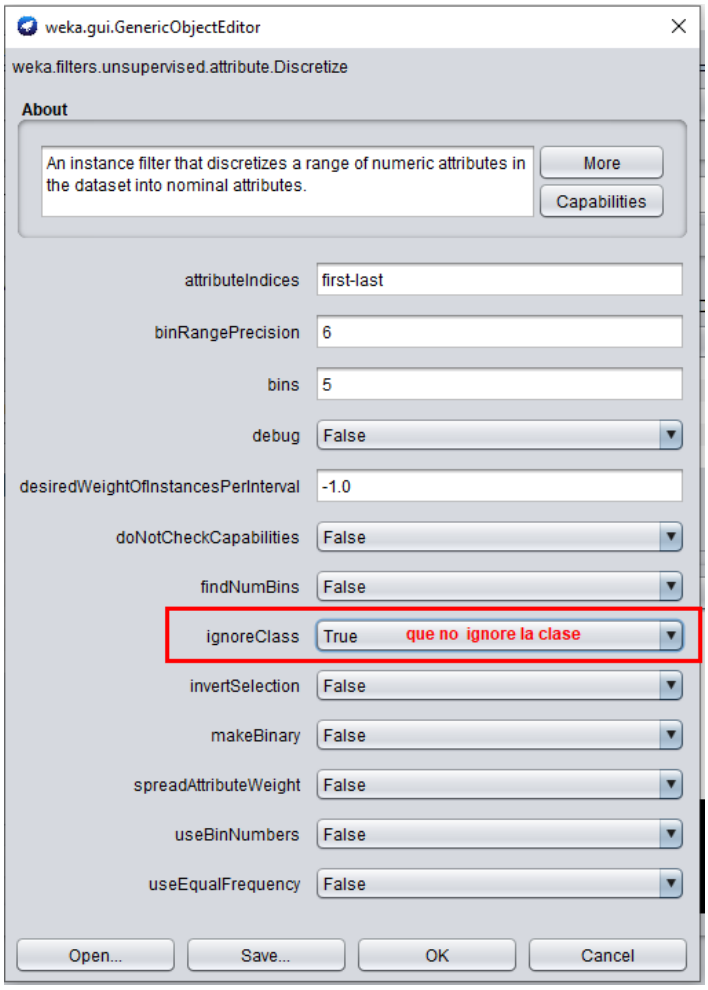
weka.gui.GenericObjectEditor
weka.filters.unsupervised.attribute.Discretize
About
An instance filter that discretizes a range of numeric attributes in the dataset into nominal attributes.
More
Capabilities
attributeIndices first-last
binRangePrecision 6
bins 5
debug False
desiredWeightOfInstancesPerInterval -1.0
doNotCheckCapabilities False
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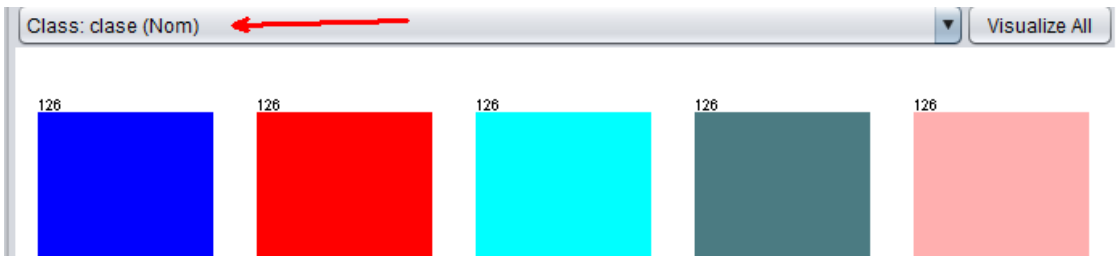
Open...
Save...
OK
Cancel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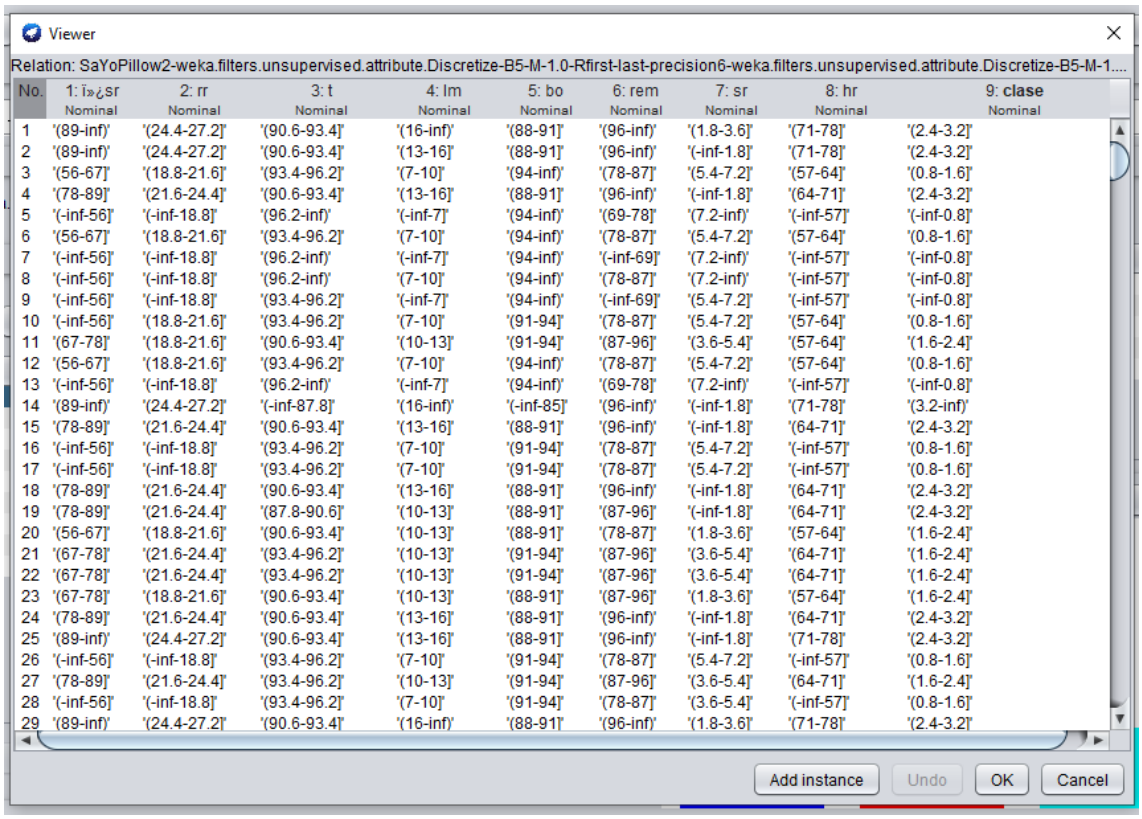
Viewer
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No. 1: ï»¿sr 2: rr 3: t 4: lm 5: bo 6: rem 7: sr 8: hr 9: clase
Nominal Nominal Nominal Nominal Nominal Nominal Nominal Nominal Nominal
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6 '(56-67]' '(18.8-21.6]' '(93.4-96.2]' '(7-10]' '(94-inf)' '(78-87]' '(5.4-7.2]' '(57-64]' '(0.8-1.6]'
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11 '(67-78]' '(18.8-21.6]' '(90.6-93.4]' '(10-13]' '(91-94]' '(87-96]' '(3.6-5.4]' '(57-64]' '(1.6-2.4]'
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13 '(-inf-56]' '(-inf-18.8]' '(96.2-inf)' '(-inf-7]' '(94-inf)' '(69-78]' '(7.2-inf)' '(-inf-57]' '(-inf-0.8]'
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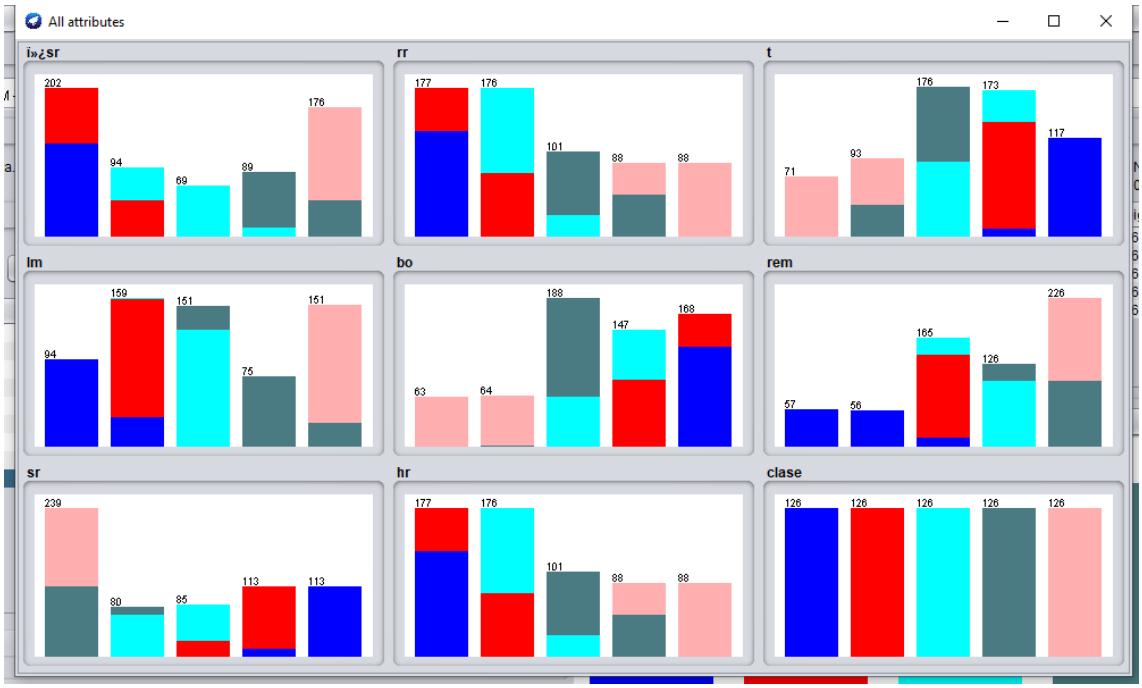
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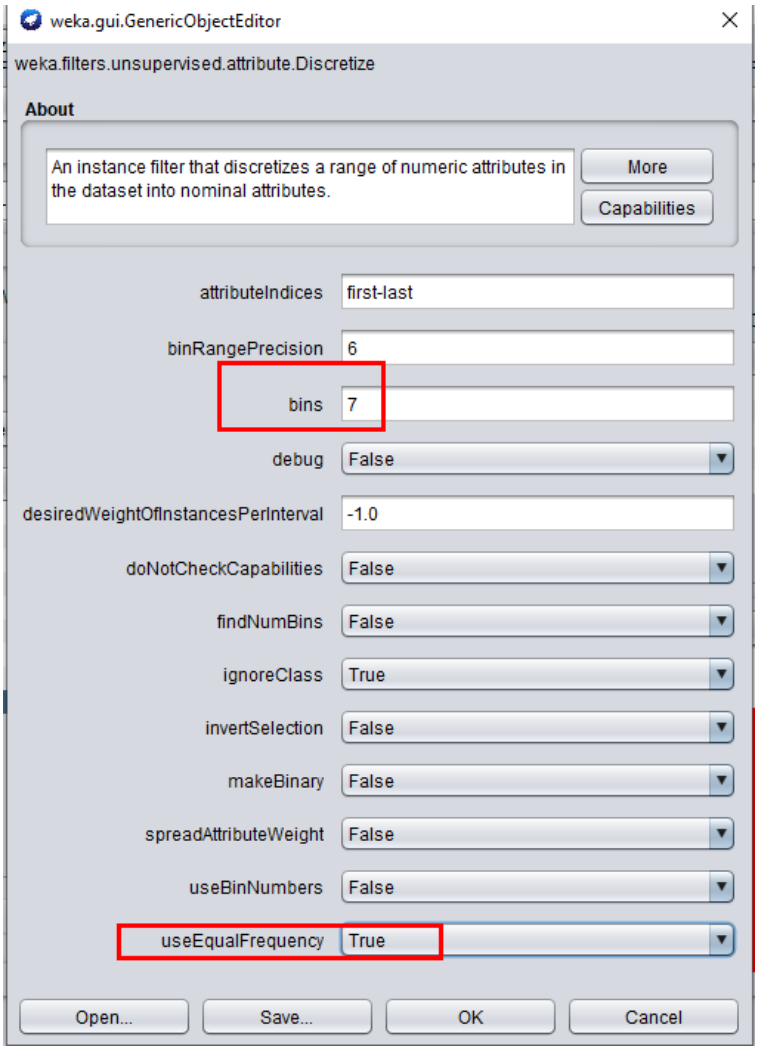
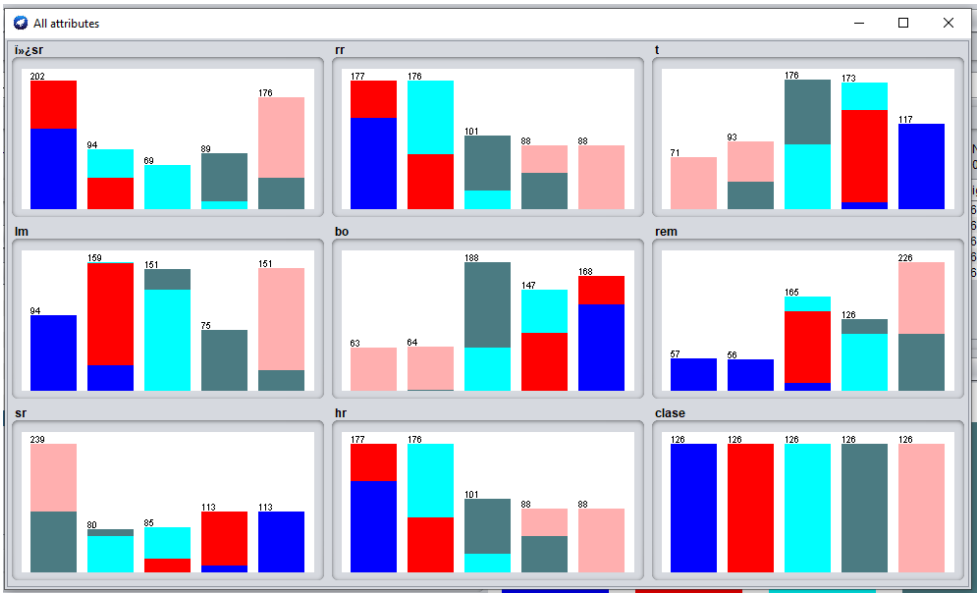


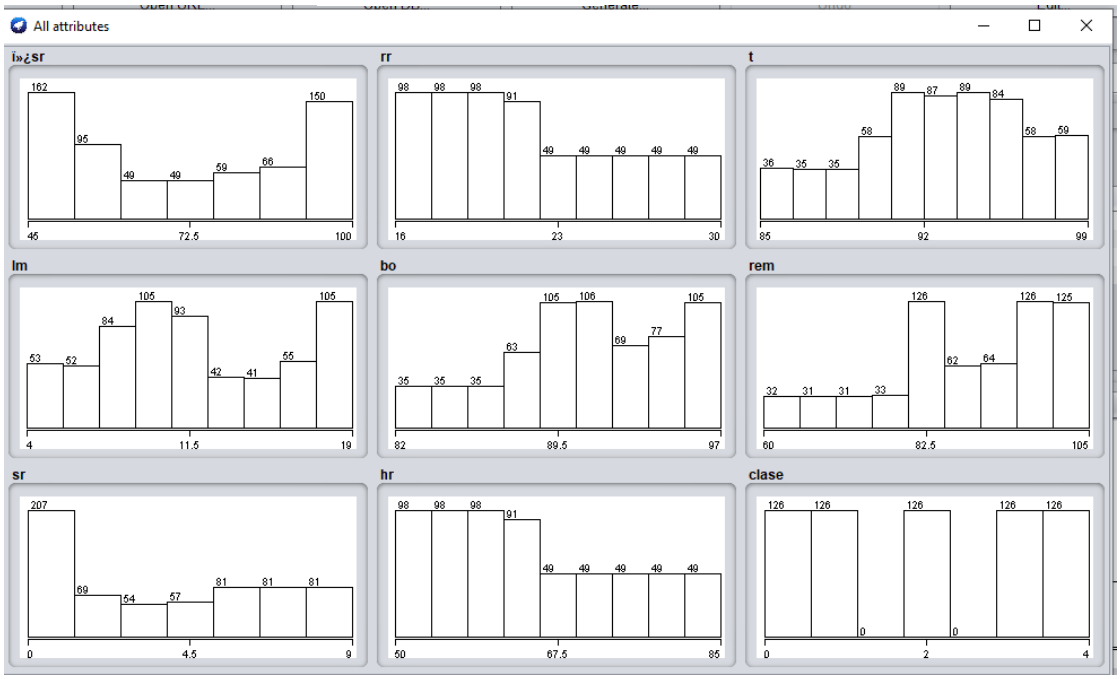
Similitudes de frecuencias



3 er Preprocesamiento

Normalize Normaliza todos los datos de manera que el rango de los datos pase a ser [0,1]. Para normalizar un vector se utiliza la fórmula:

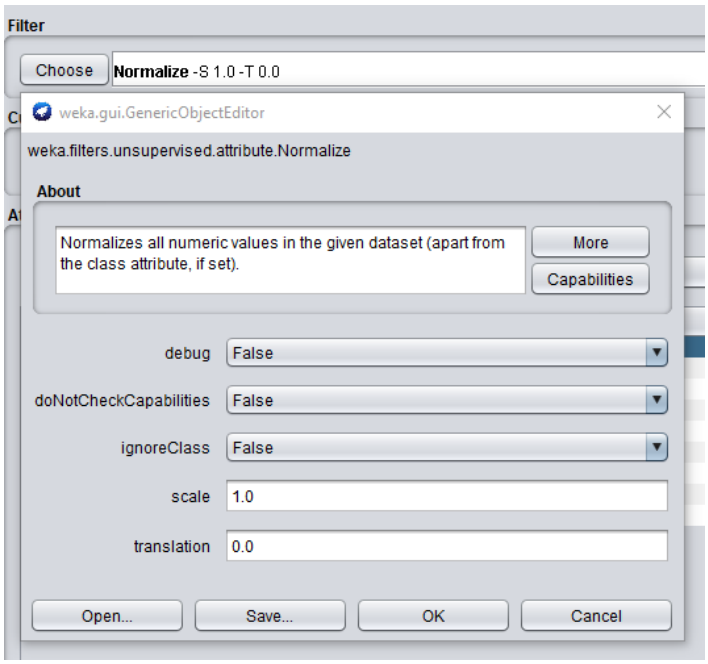
$$X(i) = \frac{x(i)}{\sqrt{\sum_{i=1}^{n} x(i)^2}}$$



Viewer

Relation: SaYoPillow2

No.	1: ï»¿sr Numeric	2: rr Numeric	3: t Numeric	4: lm Numeric	5: bo Numeric	6: rem Numeric	7: sr Numeric	8: hr Numeric	9: clase Numeric
1	93.8	25.68	91.84	16.6	89.84	99.6	1.84	74.2	3.0
2	91.64	25.104	91.552	15.88	89.552	98.88	1.552	72.76	3.0
3	60.0	20.0	96.0	10.0	95.0	85.0	7.0	60.0	1.0
4	85.76	23.536	90.768	13.92	88.768	96.92	0.768	68.84	3.0
5	48.12	17.248	97.872	6.496	96.248	72.48	8.248	53.12	0.0
6	56.88	19.376	95.376	9.376	94.064	83.44	6.376	58.44	1.0
7	47.0	16.8	97.2	5.6	95.8	68.0	7.8	52.0	0.0
8	50.0	18.0	99.0	8.0	97.0	80.0	9.0	55.0	0.0
9	45.28	16.112	96.168	4.224	95.112	61.12	7.112	50.28	0.0
10	55.52	19.104	95.104	9.104	93.656	82.76	6.104	57.76	1.0



Viewer

Relation: SaYoPillow2-weka.filters.unsupervised.attribute.Normalize-S1.0-T0.0

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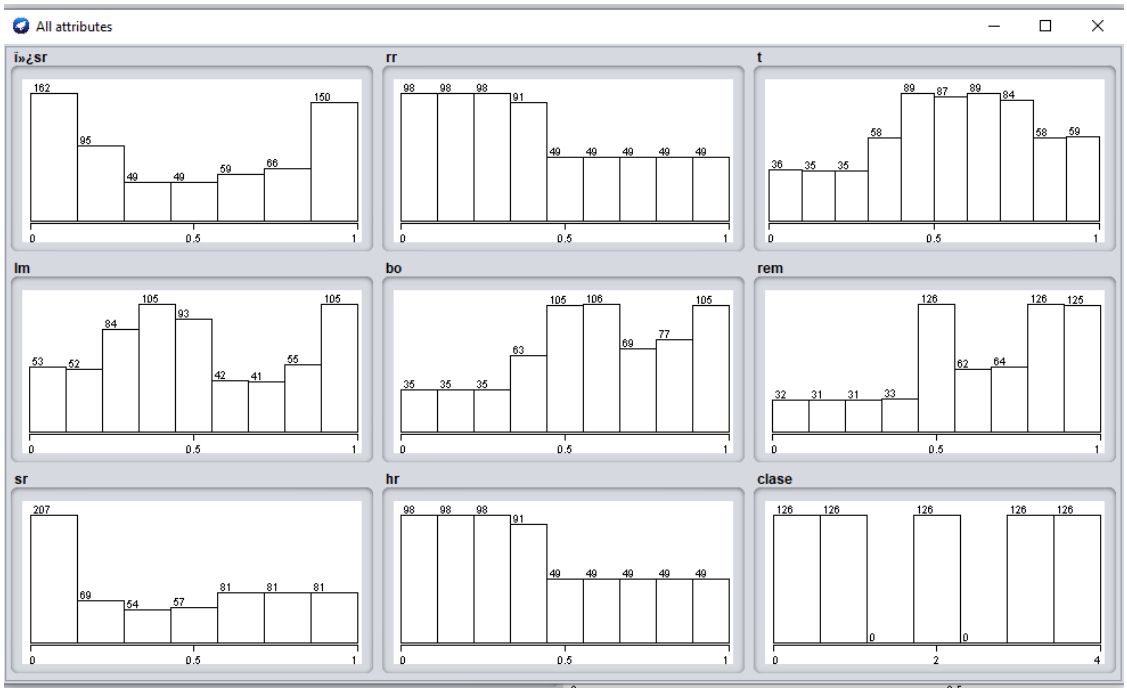
2	0.848	0.6502857142857142	0.46800000000000047	0.792	0.5034666666666671	0.8639999999999999	0.17244444444444446	0.6502857142857145	3.0
3	0.2727272727272727	0.2857142857142857	0.7857142857142857	0.4	0.8666666666666667	0.5555555555555556	0.7777777777777778	0.2857142857142857	1.0
4	0.7410909090909091	0.5382857142857144	0.41200000000000003	0.6613333333333333	0.45120000000000005	0.8204444444444445	0.08533333333333333	0.5382857142857144	3.0
5	0.05672727272727268	0.08914285714285722	0.9194285714285714	0.16640000000000002	0.949866666666667	0.27733333333333343	0.9164444444444444	0.08914285714285707	0.0
6	0.21600000000000005	0.24114285714285724	0.7411428571428574	0.35839999999999994	0.8042666666666662	0.5208888888888888	0.7084444444444444	0.24114285714285708	1.0
7	0.03636363636363636	0.0571428571428572	0.8714285714285717	0.10666666666666665	0.9199999999999998	0.17777777777777778	0.8666666666666667	0.0571428571428571	0.0
8	0.09090909090909091	0.14285714285714285	1.0	0.26666666666666666	1.0	0.4444444444444444	1.0	0.14285714285714285	0.0
9	0.005090909090909111	0.00799999999999988	0.7977142857142862	0.014933333333333347	0.874133333333333	0.024888888888888832	0.7902222222222223	0.008000000000000033	0.0
10	0.19127272727272732	0.22171428571428567	0.7217142857142856	0.3402666666666666	0.777066666666667	0.5057777777777779	0.6782222222222223	0.22171428571428567	1.0

Add instance | Undo