Package 'pacviz'

August 25, 2020

Title Pac-Man Residual Function

Version 1.0.0.0

Description TBA

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Depends R (>= 3.3.3)

Imports circlize,
e1071,
graphics,
plotrix,
stats,
utils

Suggests knitr,
rmarkdown

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

R topics documented:

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lsvm   *Pac-Man SVM*

Description

A visualization technique in R for regression analysis results, specifically residual values, based on a restricted radial coordinate system. It provides a broad view perspective on the performance of regression models, and supports most model inputs. See the pacviz documentation page for more information: https://pharaohcola13.github.io/pacviz/book/

Usage

```
lsvm(x, y, l, title, train_size = 0.7)
```

Arguments

x, y	Numeric data
l	Numeric labels data
title	Figure title
train_size	Fraction of total data that the SVM will train on

Value

Pac-Man SVM

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pac.plot   *Pac-Man SVM*

Description

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Usage

```
pac.plot(x, y, title, xaxislabel, yaxislabel, xunits, yunits, color1 = "gold")
```

Arguments

`x, y`	Numeric data
`title`	Figure title
`xaxislabel`	Angular axis label
`yaxislabel`	Radial axis label
`xunits`	String to define units on the angular axis (For temperature measurements use 'degC' or 'degF')
`yunits`	String to define units on the radial axis (For temperature measurements use 'degC' or 'degF')
`color1`	Color value as string or rgb

Value

Pac-Man SVM

Examples

```
# Generic Pac-Man residual
data("cars")
pac.plot(cars$dist,cars$speed, 'Example 1', "Distance", "Speed", 'm', 'm/s')
```

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pac.resid	*Pac-Man Residual Function*

Description

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Usage

```
pac.resid(
  x,
  y,
  title,
  unit,
  axis_label,
  model = lm(y ~ x, data = data.frame(x, y)),
  color1 = "gold",
  standardize = FALSE
)
```

Arguments

`x, y`	Numeric data
`title`	Figure title
`unit`	String to define units on the angular axis (For temperature measurements use 'degC' or 'degF')
`axis_label`	Angular axis label
`model`	An object for which the extraction of model residuals is meaningful.
`color1`	Color value as string or rgb
`standardize`	Boolean to standardize the residual value

Value

Pac-Man residual plot

`svm.partition`	*Pac-Man SVM*

Description

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Usage

```
## S3 method for class 'partition'
svm(x, y, l, train_size)
```

Arguments

`x, y`	Numeric data
`l`	Numeric labels data
`train_size`	Fraction of total data that the SVM will train on

Value

Pac-Man SVM

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