Package 'Fstability'

October 12, 2022

lump	Type Package	
Maintainer Nicolas Ewen <nicolas.ewen.math@gmail.com> Description Has two functions to help with calculating feature selection stability. 'Lump' is a function that groups subset vectors into a dataframe, and adds NA to shorter vectors so they all have the same length. 'ASM' is a function that takes a dataframe of subset vectors and the original vector of features as inputs, and calculates the Stability of the feature selection. The calculation for 'asm' uses the Adjusted Stability Measure proposed in: 'Lustgarten', 'Gopalakrishnan', & 'Visweswaran' (2009)https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2815476/>. Imports stats License GPL-3 Encoding UTF-8 LazyData true NeedsCompilation no Repository CRAN Date/Publication 2018-12-25 22:20:37 UTC R topics documented: asm lump.</nicolas.ewen.math@gmail.com>	Title Calculate Feature Stability	
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asm

Adjusted Stability Measure

Description

Calculates feature stability using asm.

Usage

```
asm(x,y)
```

Arguments

x A dataframe where each column is a subset.

y A vector of the original set.

Details

This formula to calculate feature selection stability comes from:

Lustgarten, J. L., Gopalakrishnan, V., & Visweswaran, S. (2009). Measuring Stability of Feature Selection in Biomedical Datasets. AMIA Annual Symposium Proceedings, 2009, 406–410.

Examples

```
x<-c(1,2,3,4)
y<-c(3,4,5)
z<-c(2,3,4,5,6)
T<-lump(x,y,z)
A<-c(1,2,3,4,5,6,7)
asm(T,A)
```

lump

Lump Function

Description

Lumps vectors into a data frame. Adds NAs to make all the lengths the same.

Usage

```
lump(...)
```

Arguments

.. The subsets, given as vectors.

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Examples

```
x<-c(1,2,3,4)
y<-c(3,4,5)
z<-c(2,3,4,5,6)
lump(x,y,z)
```

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