Package 'neighborhood'

July 18, 2020

Type A package

Title An R package to determine the neighborhood competitive environment of trees

Version 0.1.0

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Description Functions to define and characterize neighborhoods and estimate their effects on forest dynamics

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

Imports dplyr, tidyr, likelihood

R topics documented:

`create_nci_files` *create_nci_files*

Description

Function to compute the RDPI (Relative Distance Plasticity Index, Valladares et al, (2006) Quantitative estimation of phenotypic plasticity: bridging the gap between the evolutionary concept and its ecological applications, Journal of Ecology, 94(6):1103-1116.

Usage

```
create_nci_files(df, plot_ID, var)
```

Arguments

`var`

Details

Title

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get_neighbors *get_neighbors*

Description

Function to compute the RDPI (Relative Distance Plasticity Index, Valladares et al, (2006) Quantitative estimation of phenotypic plasticity: bridging the gap between the evolutionary concept and its ecological applications, Journal of Ecology, 94(6):1103-1116.

Usage

```
get_neighbors(df, plot_ID)
```

Arguments

plot_ID

Examples

```
plot <-c(rep(1:2, 9), rep(3:6, 14), rep(7,6))
sps_pool <- c("PINI", "PISY", "ABAL")
sps <- sample(sps_pool, length(plot), replace = T)
dbh <- rnorm(length(plot), 15, 5)
x <- rnorm(length(plot), 0, 5)
y <- rnorm(length(plot), 0, 5)
data <- data.frame(plot, sps, dbh, x, y)
neighbors <- get_neighbors(data, plot)
```

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