Hierarchical Partitioning of Marginal R2 for Generalized Mixed-Effect Models

Description

Hierarchical Partitioning of Marginal R2 for Generalized Mixed-Effect Models

Usage

`glmm.hp(mod)`

Arguments

mod Fitted lme4 or nlme model objects.

Details

This function conducts hierarchical partitioning to calculate the individual contributions of each predictor towards marginal R2 for Generalized Mixed-effect Model. The marginal R2 is the output of `r.squaredGLMM` in MuMIn package.

Value

- `Total.Marginal.R2` The marginal R2 (fixed effect) for the full model.
- `Hier.part` A matrix containing individual effects and percentage of individual effects towards total marginal R2 for each predictor.

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References

Examples

library(MuMIn)
library(lme4)
mod1 <- lmer(Sepal.Length ~ Petal.Length + Petal.Width +(1 | Species), data = iris)
r.squaredGLMM(mod1)
glmm.hp(mod1)
plot(glmm.hp(mod1))

plot.glmmhp

Plot for a glmm.hp object

Description

Plot for a glmm.hp object

Usage

## S3 method for class 'glmmhp'
plot(x, plot.perc = FALSE, n = 1, ...)

Arguments

x A glmm.hp object.
plot.perc Logical; if TRUE, the bar plot (based on ggplot2 package) of the percentage to
individual effects of variables or groups towards total explained variation, the
default is FALSE to show plot with original individual effects.
n Integer; which marginal R2 in output of r.squaredGLMM to plot.
... unused

Value

a ggplot object

Author(s)

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Examples

library(MuMIn)
library(lme4)
mod1 <- lmer(Sepal.Length ~ Petal.Length + Petal.Width +(1 | Species), data = iris)
plot(glmm.hp(mod1))
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