QCA.sim R Documentation

QCA Sufficiency Inclusion Score & Minimum Frequency Threshold Simulation

Description

Returns QCA results for a range of minimum frequency thresholds across an arbitrarily large set of sufficiency inclusion scores

Usage

```
QCA.sim(data, outcome, conditions=NULL, min.incl.cut, max.incl.cut, min.n.cut, max.n.cut, reps, plot, plot.legend, ...)
```

Arguments

data an object of class 'data.frame'

outcome a character string or column index indicating the outcome variable

conditions optional character vector or vector of column indices indicating explanatory

variables

min.incl.cut numeric lower bound for sampling of sufficiency inclusion scores max.incl.cut numeric upper bound for sampling of sufficiency inclusion scores

min.n.cut numeric lower bound for minimum frequency thresholds
max.n.cut numeric upper bound for minimum frequency thresholds
reps number of sufficiency inclusion score pairs to be sampled

plot if TRUE, plot solutions

plot.legend "solutions" indicates plot legend should contain actual unique solutions; "ids"

indicates plot should contain numeric identifiers for unique solutions; "none"

indicates plot should not contain a legend

... optional arguments passed to eqmcc()

Value

plot of QCA results for given sufficiency inclusion score pairs and minimum frequency thresholds

results data frame containing combinations of sufficiency inclusion scores and QCA solutions legend list containing unique solutions (config) and their numeric identifiers (config.id)

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Examples

```
protest.data<-read.csv(file="http://philhoward.org/wp-content/
    uploads/2012/11/International-Studies-Review-Replication-Data.csv")
protest.data<-protest.data[,!colnames(protest.data)

QCA.sim(data=protest.data, outcome="success",
    min.incl.cut=0, max.incl.cut=1, min.n.cut=1,
    max.n.cut=4, reps=100, plot=TRUE, plot.legend="ids")

QCA.sim(data=protest.data, outcome="success",
    conditions=c("mobile", "fuel"), min.incl.cut=0,
    max.incl.cut=1, min.n.cut=1, max.n.cut=4, reps=100,
    plot=TRUE, plot.legend="ids")</pre>
```