Package 'saeBest'

July 23, 2025

Type Package

Title Selecting Auxiliary Variables in Small Area Estimation (SAE) Model

Version 0.1.0

Imports sae

Author Azka Ubaidillah [aut], Sheerin Dahwan Aziz [aut, cre]

Maintainer Sheerin Dahwan Aziz <sheerindahwan@gmail.com>

Description Select best combination of auxiliary variables with certain criterion.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

Depends R (>= 2.10)

NeedsCompilation no

Repository CRAN

Date/Publication 2021-12-07 11:00:02 UTC

Contents

data 2
eblupBest 2

Index **3**

data *Dataset*

Description

Dataset

Usage

```
data(data)
```

Format

An object of class

eblupBest *Selecting Auxiliary Variables in Small Area Estimation (SAE) Model*

Description

Select best combination of auxiliary variables with certain criterion

Usage

```
eblupBest(y, x, vardir, criterion = "AIC", data)
```

Arguments

y	name of response variable
x	vector of auxiliary variables' name
vardir	name of variance direct
criterion	"loglike","AIC", "BIC", and "KIC" (default = "AIC")
data	input dataset

Value

an EBLUP-FH model with best auxiliary variables and the dataset

Examples

```
library(saeBest)
example = eblupBest(y = "y", x = c("x1","x2","x3"), vardir = "var",data = data)
```

Index

∗ **datasets**
data, 2

data, 2

eblupBest, 2