Package 'EE.Data'

April 1, 2026

Type Package

Title Objects for Predicting Energy Expenditure

Version 0.1.1

Description This is a data-only package containing model objects that predict human energy expenditure from wearable sensor data. Supported methods include the neural networks of Montoye et al. (2017) <doi:10.1080/1091367X.2017.1337638> and the models of Staudenmayer et al. (2015) <doi:10.1152/japplphysiol.00026.2015>, one a linear model and the other a random forest. The package is intended as a spoke for the hub-package 'accelEE', which brings together the above methods and others from packages such as 'Sojourn' and 'TwoRegression.'

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Encoding UTF-8

LazyData true

LazyDataCompression xz

Suggests nnet, randomForest

Depends R (>= 2.10)

RoxygenNote 7.3.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-04-01 08:50:16 UTC

Contents

montoye *Neural networks for energy expenditure prediction*

Description

Neural networks for energy expenditure prediction

Usage

```
montoye_lw

montoye_rw
```

Format

Objects of class "nnet"

An object of class `nnet.formula` (inherits from `nnet`) of length 7.

References

doi:10.1080/1091367X.2017.1337638

staudenmayer *Linear model and random forest for energy expenditure prediction*

Description

Linear model and random forest for energy expenditure prediction

Usage

```
staudenmayer_lm

staudenmayer_rf
```

Format

Two objects, one of class "lm" (`staudenmayer_lm`) and the other of class "randomForest" (`staudenmayer_rf`)

An object of class `randomForest.formula` (inherits from `randomForest`) of length 4.

References

doi:10.1152/japplphysiol.00026.2015

Index