

Package ‘EE.Data’

August 21, 2026

Type Package

Title Objects for Predicting Energy Expenditure

Version 0.2.0

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](https://doi.org/10.1080/1091367X.2017.1337638)> and the models of Staudenmayer et al. (2015) <[doi:10.1152/jappphysiol.00026.2015](https://doi.org/10.1152/jappphysiol.00026.2015)>, one a linear model and the other a random forest. The package is intended as a spoke for the hub-package 'acceleEE', 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 (>= 3.5)

RoxygenNote 7.3.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-08-21 05:46:50 UTC

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montoye

Neural networks for energy expenditure prediction

Description

Neural networks for energy expenditure prediction

Usage

montoye_lw

montoye_rw

Format

Objects of class "nnet.formula"

An object of class `nnet.formula` (inherits from `nnet`) of length 8.

References

[doi:10.1080/1091367X.2017.1337638](https://doi.org/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](https://doi.org/10.1152/japplphysiol.00026.2015)

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