

Package: Sojourn.Data (via r-universe)

November 1, 2024

Type Package

Title Supporting Objects for Sojourn Accelerometer Methods

Version 0.3.0

Depends R (>= 3.1.0)

Description Stores objects (e.g. neural networks) that are needed for using Sojourn accelerometer methods. For more information, see Lyden K, Keadle S, Staudenmayer J, & Freedson P (2014) <[doi:10.1249/MSS.0b013e3182a42a2d](https://doi.org/10.1249/MSS.0b013e3182a42a2d)>, Ellingson LD, Schwabacher IJ, Kim Y, Welk GJ, & Cook DB (2016) <[doi:10.1249/MSS.0000000000000915](https://doi.org/10.1249/MSS.0000000000000915)>, and Hibbing PR, Ellingson LD, Dixon PM, & Welk GJ (2018) <[doi:10.1249/MSS.0000000000001486](https://doi.org/10.1249/MSS.0000000000001486)>.

License GPL-3

Encoding UTF-8

LazyData true

LazyDataCompression xz

RoxygenNote 7.1.1

URL <https://github.com/paulhibbing/Sojourn.Data>

BugReports <https://github.com/paulhibbing/Sojourn.Data/issues>

Suggests nnet

NeedsCompilation no

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Repository <https://paulhibbing.r-universe.dev>

RemoteUrl <https://github.com/cran/Sojourn.Data>

RemoteRef HEAD

RemoteSha 6fb16882214c78b52bbef1a949906b88ccd3e6de

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ALL.reg.nn	<i>Uniaxial neural network for use in original triaxial Sojourn method</i>
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Description

Uniaxial neural network for use in original triaxial Sojourn method

Usage

ALL.reg.nn

Format

From print(ALL.reg.nn):
 a 6-25-1 network with 207 weights inputs: X10. X25. X50. X75. X90. acf output(s):
 oxy.METS.calculated options were - skip-layer connections linear output units

cent	<i>Centering coefficients for uniaxial nnetinputs</i>
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Description

Centering coefficients for uniaxial nnetinputs

Usage

cent

Format

A named numeric vector

cent.1	<i>Centering coefficients for triaxial nnetinputs</i>
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Description

Centering coefficients for triaxial nnetinputs

Usage

cent.1

Format

A named numeric vector

class.nnn.6	<i>Triaxial neural network for original Sojourn method</i>
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Description

Triaxial neural network for original Sojourn method

Usage

class.nnn.6

Format

From print(class.nnn.6):

a 22-25-4 network with 767 weights inputs: X50. X75. X90. acf X10.2 X25.2 X50.2 X75.2 X90.2 acf.2 X25.3 X50.3 X75.3 X90.3 acf.3 X10.vm X25.vm X50.vm X75.vm X90.vm acf.vm inact.durations output(s): train.6\$act.type options were - skip-layer connections softmax modelling decay=0.03

reg.nn	<i>Uniaxial neural network for use in the original uniaxial Sojourn method</i>
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Description

Uniaxial neural network for use in the original uniaxial Sojourn method

Usage

reg.nn

Format

From print(reg.nn): a 6-25-1 network with 207 weights inputs: X10. X25. X50. X75. X90. acf output(s): oxy.METS.calculated options were - skip-layer connections linear output units

scal	<i>Scaling coefficients for uniaxial nnetinputs</i>
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Description

Scaling coefficients for uniaxial nnetinputs

Usage

scal

Format

numeric vector of size 6

scal.1	<i>Scaling coefficients for triaxial nnetinputs</i>
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Description

Scaling coefficients for triaxial nnetinputs

Usage

scal.1

Format

numeric vector of size 25

 Sojourn.Data

Sojourn.Data: Models for Sojourn Accelerometer Methods

Description

Sojourn methods rely on large objects, which take up too much space in an ordinary package. Thus, the objects are stored in this data-only package, meant to complement the Sojourn package.

 youth_grids

Data frame containing grid values for the youth Sojourn method

Description

Data frame containing grid values for the youth Sojourn method

Usage

youth_grids

Format

data frame with 4 rows and 14 columns

 youth_hipCounts

Neural network for youth Sojourn method, taking activity count data from hip-worn monitors

Description

Neural network for youth Sojourn method, taking activity count data from hip-worn monitors

Usage

youth_hipCounts

Format

From print(youth_hipCounts):

a 9-15-3 network with 198 weights inputs: Age SexM BMI VM_Q10 VM_Q25 VM_Q50 VM_Q75 VM_Q90 VM_lag1 output(s): .outcome options were - softmax modelling

youth_hipRaw	<i>Neural network for youth Sojourn method, taking raw accelerometer data from hip-worn monitors</i>
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Description

Neural network for youth Sojourn method, taking raw accelerometer data from hip-worn monitors

Usage

youth_hipRaw

Format

From print(youth_hipRaw):

a 9-20-3 network with 263 weights inputs: Age SexM BMI ENMO_Q10 ENMO_Q25 ENMO_Q50 ENMO_Q75 ENMO_Q90 ENMO_lag1 output(s): .outcome options were - softmax modelling decay=0.1

youth_wristCounts	<i>Neural network for youth Sojourn method, taking activity count data from non-dominant-wrist-worn monitors</i>
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Description

Neural network for youth Sojourn method, taking activity count data from non-dominant-wrist-worn monitors

Usage

youth_wristCounts

Format

From print(youth_wristCounts):

a 9-15-3 network with 198 weights inputs: Age SexM BMI VM_Q10 VM_Q25 VM_Q50 VM_Q75 VM_Q90 VM_lag1 output(s): .outcome options were - softmax modelling decay=0.1

youth_wristRaw	<i>Neural network for youth Sojourn method, taking raw accelerometer data from non-dominant-wrist-worn monitors</i>
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Description

Neural network for youth Sojourn method, taking raw accelerometer data from non-dominant-wrist-worn monitors

Usage

youth_wristRaw

Format

From print(youth_wristRaw):

a 9-15-3 network with 198 weights inputs: Age SexM BMI ENMO_Q10 ENMO_Q25 ENMO_Q50 ENMO_Q75 ENMO_Q90 ENMO_lag1 output(s): .outcome options were - softmax modelling decay=0.1

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