

Package ‘pressuRe’

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Type Package

Title Imports, Processes, and Visualizes Biomechanical Pressure Data

Version 0.2.7

Description Allows biomechanical pressure data from a range of systems to be imported and processed in a reproducible manner. Automatic and manual tools are included to let the user define regions (masks) to be analyzed. Also includes functions for visualizing and animating pressure data. Example methods are described in Shi et al., (2022) <[doi:10.1038/s41598-022-19814-0](https://doi.org/10.1038/s41598-022-19814-0)>, Lee et al., (2014) <[doi:10.1186/1757-1146-7-18](https://doi.org/10.1186/1757-1146-7-18)>, van der Zward et al., (2014) <[doi:10.1186/1757-1146-7-20](https://doi.org/10.1186/1757-1146-7-20)>, Najafi et al., (2010) <[doi:10.1016/j.gaitpost.2009.09.003](https://doi.org/10.1016/j.gaitpost.2009.09.003)>, Cavanagh and Rodgers (1987) <[doi:10.1016/0021-9290\(87\)90255-7](https://doi.org/10.1016/0021-9290(87)90255-7)>.

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URL <https://github.com/Telfer/pressuRe>

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animate_pressure	<i>Animate pressure</i>
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Description

Produces animation (gif) of pressure data

Usage

```
animate_pressure(
  pressure_data,
  plot_colors = "default",
  fps,
  dpi = 96,
  file_name
)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
plot_colors	String
fps	Numeric. Number of frames per second in animation
dpi	Numeric. Resolution of gif
file_name	Name (including path) of export file

Value

Animation in gif format

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
animate_pressure(pressure_data, fps = 10, file_name = "stapp_gif.gif")
```

arch_index	<i>Calculate Arch Index.</i>
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Description

Calculate Arch Index.

Usage

```
arch_index(pressure_data, plot = TRUE)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
plot	Logical. Not implemented yet

Value

Numeric. Arch index value

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
arch_index(pressure_data)
```

auto_detect_side *Detect foot side*

Description

Detects which foot plantar pressure data is from (left or right), usually would only be needed for barefoot pressure plate data. Generally reliable but may be thrown off by severe deformities or abnormal walking patterns

Usage

```
auto_detect_side(pressure_data)
```

Arguments

pressure_data List. First item should be a 2D array covering each timepoint of the measurement.

Value

String. "LEFT" or "RIGHT"

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
auto_detect_side(pressure_data)
```

clean_pressure *Manually remove individual sensors*

Description

Select sensors, often with abherrant readings, and remove from the dataset

Usage

```
clean_pressure(pressure_data)
```

Arguments

pressure_data List. First item should be a 2D array covering each timepoint of the measurement. z dimension represents time.

Value

- `pressure_array`. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- `pressure_system`. String defining pressure system
- `sens_size`. Numeric vector with the dimensions of the sensors
- `time`. Numeric value for time between measurements
- `masks`. List
- `events`. List
- `sensor_polygons`. Data frame with corners of sensors
- `max_matrix`. Matrix

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
pressure_data <- clean_pressure(pressure_data)
```

 cop

Center of pressure

Description

Generates xy coordinates for center of pressure during each frame of measurement

Usage

```
cop(pressure_data)
```

Arguments

`pressure_data` List. First item should be a 2D array covering each timepoint of the measurement.

Value

Data frame with x and y coordinates of COP throughout trial

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
cop(pressure_data)
```

cpei	<i>CPEI</i>
------	-------------

Description

Determine Center of Pressure Excursion Index (CPEI) for footprint pressure data

Usage

```
cpei(pressure_data, foot_side = "auto", plot_result = TRUE)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement. Not currently available for pedar.
foot_side	String. "right" or "left". Required for automatic detection of points
plot_result	Logical. Plots pressure image with COP and CPEI overlaid

Value

Numeric. CPEI value

Author(s)

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Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
cpei(pressure_data, foot_side = "auto", plot_result = FALSE)
```

create_mask_auto	<i>Automatically mask pressure footprint</i>
------------------	--

Description

Automatically creates mask for footprint data

Usage

```

create_mask_auto(
  pressure_data,
  masking_scheme,
  foot_side = "auto",
  res_value = c(20000, 20000, 1e+05, 50000),
  plot = TRUE,
  template_mask = NULL,
  hal_start = 0.5,
  toe_start = 0.2
)

```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
masking_scheme	String. "automask_simple", "automask_novel", "pedar_mask1", "pedar_mask2", "pedar_mask3", "template". "simple_automask" applies a simple 3 part mask (hindfoot, midfoot, forefoot) "automask_novel" attempts to apply a 9-part mask (hindfoot, midfoot, mets, hallux, lesser toes), similar to the standard novel automask "pedar_mask1" splits the insole into 4 regions using sensel boundaries: hindfoot, midfoot, forefoot, and toes- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9470545/ "pedar_mask2" splits the insole into 4 regions using percentages: hindfoot, forefoot, hallux, and lesser toes- https://jfootankleres.biomedcentral.com/articles/10.1186/1757-1146-7-18 "pedar_mask3" splits the foot into 9 regions using sensel boundaries: medial hindfoot, lateral hindfoot, medial midfoot, lateral midfoot, MTPJ1, MTPJ2-3, MTPJ4-5, hallux, and lesser toes- https://jfootankleres.biomedcentral.com/articles/10.1186/1757-1146-7-20
foot_side	String. "RIGHT", "LEFT", or "auto". Auto uses auto_detect_side function
res_value	Numeric vector. Adjusting these values can help if the heel, midfoot, toe, and hallux lines aren't correct. Default values are c(10000, 10000, 100000, 10000). These lines are calculated using a least cost function and the parameter essentially adjusts the resistance of the pressure value for that algorithm
plot	Logical. Whether to play the animation
template_mask	Data frame. Mask to be used if "template_mask" is selected as the masking scheme
hal_start	Numeric. Adjust medial start point of toe line
toe_start	Numeric. Adjust lateral start point of toe line

Value

List. Masks are added to pressure data variable

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system

- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. List

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
pressure_data <- create_mask_auto(pressure_data, "automask_novel",
res_value = c(20000, 20000, 100000, 20000), foot_side = "auto", plot = FALSE)
```

create_mask_manual *Create masking*

Description

Allows user to manually define mask regions

Usage

```
create_mask_manual(
  pressure_data,
  mask_definition = "by_vertices",
  n_masks = 1,
  n_verts = 4,
  n_sens = 4,
  threshold = 0.005,
  plot_existing_masks = TRUE,
  mask_names = "default",
  plot = TRUE
)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
mask_definition	String. "by_vertices" or "by_sensors". The first option lets you draw a shape around the area you want to select, the second allows you to define this area by clicking on specific sensors
n_masks	Numeric. Number of masks to add
n_verts	Numeric. Number of vertices in mask
n_sens	Numeric. Number of sensors mask will contain
threshold	Numeric. Distance between adjacent mask vertices before sharing vertex coordinates

```

plot_existing_masks
    Logical. Show existing masks
mask_names
    List. Mask names. Default is "custom_mask#"
plot
    Logical. Show new maks on pressure image

```

Value

List. Mask(s) are added to pressure data variable

- `pressure_array`. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- `pressure_system`. String defining pressure system
- `sens_size`. Numeric vector with the dimensions of the sensors
- `time`. Numeric value for time between measurements
- `masks`. List
- `events`. List
- `sensor_polygons`. Data frame with corners of sensors
- `max_matrix` Matrix with maximum image

Examples

```

emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
pressure_data <- create_mask_manual(pressure_data, mask_definition = "by_vertices",
n_masks = 1, n_verts = 4)
pressure_data <- create_mask_manual(pressure_data, mask_definition = "by_sensors",
n_masks = 1, n_sens = 8)

```

edit_mask

Edit mask

Description

Allows user to manually adjust mask vertices

Usage

```

edit_mask(
  pressure_data,
  n_edit,
  threshold = 0.002,
  edit_list = seq(1, length(pressure_data[[5]])),
  image = "max"
)

```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
n_edit	Numeric. Number of vertices to edit
threshold	Numeric. Distance between point clicked and vertex that is selected
edit_list	List. Mask numbers that want to be edited. (Default is to load all masks so that adjacent masks with shared coordinates are modified together)
image	String. "max" = footprint of maximum sensors. "mean" average value of sensors over time

Value

List. Edited mask is added to the pressure data variable

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix Matrix with maximum image

Examples

```

emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
pressure_data <- create_mask_auto(pressure_data, "automask_novel",
foot_side = "auto", plot = FALSE)
pressure_data <- edit_mask(pressure_data, n_edit = 1, threshold = 0.002,
image = "max")

```

footprint

Footprint

Description

Determines footprint of pressure data

Usage

```
footprint(pressure_data, variable = "max", frame = NULL, plot = FALSE)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
variable	String. "max" = maximum value of each sensor across full dataset. "mean" = average value of sensors over full dataset. "frame" = an individual pressure frame. "meanmax" average max values across cycles (currently just for pedar)
frame	Integer. Only used if variable = "frame".
plot	Logical. Display pressure image

Value

Matrix. Maximum or mean values for all sensors

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
footprint(pressure_data, plot = FALSE)
```

load_emed	<i>Load emed data</i>
-----------	-----------------------

Description

Imports and formats .lst files collected on emed system and exported from Novel software

Usage

```
load_emed(pressure_filepath, trim_active = FALSE)
```

Arguments

pressure_filepath	String. Filepath pointing to emed pressure file
trim_active	Logical. Restricts frames to only the first continuous foot contact

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the areas of the sensors
- time. Numeric value for time between measurements
- masks. List

- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix Matrix with maximum image

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
```

load_footscan	<i>Load footscan data</i>
---------------	---------------------------

Description

Imports and formats files collected on footscan systems (formerly RSScan)

Usage

```
load_footscan(pressure_filepath)
```

Arguments

pressure_filepath
String. Filepath pointing to emed pressure file

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix. Matrix

Examples

```
footscan_data <- system.file("extdata", "footscan_test.xls", package = "pressuRe")
pressure_data <- load_footscan(footscan_data)
```

load_pedar	<i>Load pedar data</i>
------------	------------------------

Description

Imports and formats .asc files collected on pedar system and exported from Novel software

Usage

```
load_pedar(pressure_filepath)
```

Arguments

pressure_filepath
String. Filepath pointing to pedar pressure file

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. String with sensor type
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix Matrix with maximum image

Examples

```
pedar_data <- system.file("extdata", "pedar_example.asc", package = "pressuRe")  
pressure_data <- load_pedar(pedar_data)
```

load_pliance	<i>Load pliance data</i>
--------------	--------------------------

Description

Imports and formats .asc files collected on pliance system and exported from Novel software

Usage

```
load_pliance(pressure_filepath)
```

Arguments

pressure_filepath
String. Filepath pointing to pliance pressure file

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. String with sensor type
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix. Matrix

Examples

```
pliance_data <- system.file("extdata", "pliance_test.asc", package = "pressuRe")  
pressure_data <- load_pliance(pliance_data)
```

load_stappone	<i>Load stappone data</i>
---------------	---------------------------

Description

Imports and formats .asc files collected on stappone system

Usage

```
load_stappone(pressure_filepath)
```

Arguments

pressure_filepath
String. Filepath pointing to stappone pressure file

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. String with sensor type
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix Matrix with maximum image

Examples

```
stappone_data <- system.file("extdata", "stappone_example.csv", package = "pressuRe")  
pressure_data <- load_stappone(stappone_data)
```

load_tekscan	<i>Load Tekscan data</i>
--------------	--------------------------

Description

Imports and formats files collected on tekscan systems and exported from Tekscan software

Usage

```
load_tekscan(pressure_filepath, rm_inactive = F, rotate = 0)
```

Arguments

pressure_filepath	String. Filepath pointing to emed pressure file
rm_inactive	Logical. Whether to remove inactive rows from dataset
rotate	Numeric. Rotate pressure image 90, 180, or 270 degrees

Value

A list with information about the pressure data.

- `pressure_array`. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- `pressure_system`. String defining pressure system
- `sens_size`. Numeric vector with the dimensions of the sensors
- `time`. Numeric value for time between measurements
- `masks`. List
- `events`. List
- `sensor_polygons`. Data frame with corners of sensors
- `max_matrix`. Matrix

Examples

```
tekscan_data <- system.file("extdata", "fscan_testL.asf", package = "pressuRe")  
pressure_data <- load_tekscan(tekscan_data)
```

load_xsensor	<i>Load xsensor data</i>
--------------	--------------------------

Description

Imports and formats files collected on xsensor insole systems

Usage

```
load_xsensor(pressure_filepath)
```

Arguments

pressure_filepath
String. Filepath pointing to emed pressure file

Value

A list with information about the pressure data.

- pressure_array. 2D array covering each timepoint of the measurement. row dimension represents time
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix. Matrix

mask_analysis	<i>Analyze masked regions of pressure data</i>
---------------	--

Description

Analyze masked regions of pressure data

Usage

```
mask_analysis(  
  pressure_data,  
  partial_sensors = FALSE,  
  variable = "press_peak_sensor",  
  pressure_units = "kPa",  
  area_units = "cm2"  
)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
partial_sensors	Logical Defines how sensors that do not lie wholly within mask are dealt with. If FALSE, they will be excluded; if TRUE, for relevant variables their contribution will be weighted by the proportion of the sensor that falls within the mask border
variable	String. Variable to be determined. "press_peak_sensor", "press_peak_mask", "contact_area_peak", "pti_1", "pti_2", "force_time_integral", "force_peak", "dpli", "press_peak_sensor_ts", "force_ts". Variables ending in "_ts" produce time series data
pressure_units	String. Default "kPa". Other options: "MPa", "Ncm2" (Newtons per square centimeter)
area_units	String. Default is "cm2" (square centimeters). Other options "m2" (square meters); "mm2" (square millimeters)

Value

Data frame. Contains values for each mask plus additional information relevant to the data including cycle/step and foot side

Examples

```

emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
pressure_data <- create_mask_auto(pressure_data, "automask_simple", plot = FALSE)
mask_analysis(pressure_data, FALSE, variable = "press_peak_sensor")

```

plot_pressure	<i>Plot pressure</i>
---------------	----------------------

Description

Produces visualization of pressure data

Usage

```

plot_pressure(
  pressure_data,
  variable = "max",
  smooth = FALSE,
  frame,
  step_n = "max",
  plot_COP = FALSE,
  plot_outline = FALSE,
  plot_masks = FALSE,

```

```

    plot_colors = "default",
    break_values,
    break_colors,
    sensor_outline = TRUE,
    plot = TRUE,
    legend = TRUE
  )

```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
variable	String. "max" = footprint of maximum sensors. "mean" = average value of sensors over time (usually for static analyses). "frame" = an individual frame
smooth	Logical. Not implemented. If TRUE, plot will interpolate between sensors to increase data density
frame	Integer.
step_n	If numeric, the step number to plot (only for insole data). If "max", the max across complete trial, if "meanmax", the max on a per step basis
plot_COP	Logical. If TRUE, overlay COP data on plot. Default = FALSE
plot_outline	Logical. If TRUE, overlay convex hull outline on plot
plot_masks	Logical. If TRUE, overlay mask outline on plot
plot_colors	String. "default": novel color scheme; "custom": user supplied
break_values	Vector. If plot_colors is "custom", values to split colors at
break_colors	Vector. If plot_colors is "custom", colors to use. Should be one shorter than break_values
sensor_outline	Logical. Sensor outline to be shown
plot	Logical. If TRUE, plot will be displayed
legend	Logical. If TRUE, legend will be added to plot

Value

ggplot plot object

Examples

```

emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
plot_pressure(pressure_data, variable = "max", plot_COP = FALSE)
plot_pressure(pressure_data, variable = "frame", frame = 20,
              plot_colors = "custom", break_values = c(100, 200, 300),
              break_colors = c("light blue", "light green", "yellow", "pink"))

```

pressure_interp	<i>Interpolate pressure data</i>
-----------------	----------------------------------

Description

Resamples pressure data over time. Useful for normalizing to stance phase, for example

Usage

```
pressure_interp(pressure_data, interp_to)
```

Arguments

pressure_data	List. First item should be a 3D array covering each timepoint of the measurement. z dimension represents time.
interp_to	Integer. Number of frames to interpolate to

Value

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. List
- sensor_polygons. Data frame with corners of sensors
- max_matrix. Matrix

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")  
pressure_data <- load_emed(emed_data)  
pressure_data <- pressure_interp(pressure_data, interp_to = 101)
```

select_steps	<i>Select steps</i>
--------------	---------------------

Description

Select steps, usually from insole data, and format for analysis

Usage

```
select_steps(
  pressure_data,
  threshold = "auto",
  min_frames = 10,
  n_steps = 5,
  skip = 2
)
```

Arguments

pressure_data	List. First item should be a 3D array covering each timepoint of the measurement. z dimension represents time.
threshold	Numeric. Threshold force to define start and end of step. If "auto", function will set threshold at minimum force in trial + 10N
min_frames	Numeric. Minimum number of frames that need to be in step
n_steps	Numeric. Target number of steps/cycles. User will be asked to keep selected steps until this target is reached or they run out of candidate steps
skip	Numeric. Usually the first few steps of a trial are accelerating and not representative of steady state walking so this removes them

Value

- pressure_array. 2D array covering each timepoint of the measurement. Sensors are columns, time is rows
- pressure_system. String defining pressure system
- sens_size. Numeric vector with the dimensions of the sensors
- time. Numeric value for time between measurements
- masks. List
- events. Data frame
- sensor_polygons. Data frame with corners of sensors
- max_matrix. Matrix

Examples

```
pedar_data <- system.file("extdata", "pedar_example.asc", package = "pressuRe")
pressure_data <- load_pedar(pedar_data)
pressure_data <- select_steps(pressure_data)
```

whole_pressure_curve *Whole pressure curve*

Description

Generates vectors with option to plot for force, peak/mean pressure and area for complete measurement. Useful for checking data

Usage

```
whole_pressure_curve(  
  pressure_data,  
  variable,  
  side,  
  threshold = 10,  
  plot = FALSE  
)
```

Arguments

pressure_data	List. First item should be a 2D array covering each timepoint of the measurement.
variable	String. "peak_pressure", "force", or "area"
side	For insole data only
threshold	Numeric. Threshold value for sensor to be considered active. Currently only applies to insole data
plot	Logical. If TRUE also plots data as line curve

Value

Numeric vector containing variable values

Examples

```
emed_data <- system.file("extdata", "emed_test.lst", package = "pressuRe")
pressure_data <- load_emed(emed_data)
whole_pressure_curve(pressure_data, variable = "peak_pressure", plot = FALSE)
whole_pressure_curve(pressure_data, variable = "area", plot = FALSE)
whole_pressure_curve(pressure_data, variable = "force", plot = FALSE)
```

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