Package: dosedesignR (via r-universe)

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Type Package

Title Interactive Designing of Dose Finding Studies

Version 0.3.0

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Description Provides the user with an interactive application which can be used to facilitate the planning of dose finding studies by applying the theory of optimal experimental design.

Depends R (>= 3.6.0)

License GPL-3

Encoding UTF-8

Imports utils, shiny, DT, latticeExtra, ggplot2, shinyjs, purrr, stringr, shinyWidgets, DoseFinding, shinyBS, readxl, knitr, kableExtra, Rsolnp

VignetteBuilder knitr

NeedsCompilation no

RoxygenNote 7.2.3

Config/pak/sysreqs cmake libfontconfig1-dev libfreetype6-dev libfribidi-dev make libharfbuzz-dev libicu-dev libjpeg-dev libpng-dev libuv1-dev libxml2-dev zlib1g-dev

Repository https://t-schm.r-universe.dev

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run_dosedesignR *run_dosedesignR - Launches the Shiny application*

Description

Starts the dosedesignR application in the client's browser.

Usage

```
run_dosedesignR(
  ColorBG = "#424242",
  ColorText = "#828282",
  browser = getOption("shiny.launch.browser", interactive()),
  host = NULL,
  port = NULL,
  numberCandidateModels = 4
)
```

Arguments

ColorBG	background color (defaults to "#424242")
ColorText	text color (defaults to "#828282")
browser	path to browser exe (defaults to standard browser)
host	host link (defaults to the local machine "127.0.0.1")
port	port number (randomly chosen unless specified as a certain number)
numberCandidateModels	number of panels(default: 6)

Details

Further information on how to use this application can be found in the vignette of this package.

Examples

```
if(interactive()){
## Launch application on localhost (127.0.0.1)
## -------------------------------------------
## By default run_dosedesignR starts the application on localhost
## and a randomly selected port (e.g. 9876), in which case you can connect
## to the running application by navigating your browser to
## http://localhost:9876.
run_dosedesignR()

## Launch application on a different host
## --------------------------------------
## You can also run the application on a different host
## by specifying a hostname and port. Just make sure to
```

```
## use an open port on your machine. Here "open" means
## that the port should not be used by another service
## and the port is opened by your firewall.
run_dosedesignR(host="your-hostname", port=8888)


## Make the application available to your coworkers
## ------------------------------------------------
## within your local area network even without a
## dedicated Shiny server. The value set through the
## host argument says to accept any connection (not just from localhost).
## Then take note of your local IP (if you are under linux,
## you can see it through ifconfig). Say your IP is 192.168.1.70.
## Your colleagues can use your app by inserting in the address
## bar of their browser 192.168.1.70:8888, i.e. your IP followed
## by : and the port number you selected.
run_dosedesignR(host="0.0.0.0", port=8888)

## Launch application on a different browser
## -----------------------------------------
## To run the shiny app on a different browser than your standard browser
## use the "browser" argument to set the path to the respective .exe file.
runDoseDesignR(browser = "C:/Program Files/Mozilla Firefox/firefox.exe")
}
```

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