Package 'shinyKGode'

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Type Package

Title An Interactive Application for ODE Parameter Inference Using
Gradient Matching

Version 1.0.5

Author Joe Wandy

Maintainer Joe Wandy <joe.wandy@glasgow.ac.uk>

Description An interactive Shiny application to perform fast parameter inference on
dynamical systems (described by ordinary differential equations) using gradient matching.
Please see the project page for more details.

License GPL-2

URL <https://github.com/joewandy/shinyKGode>

Encoding UTF-8

LazyData true

Imports shiny (>= 1.0.5), shinyjs (>= 0.9.1), ggplot2 (>= 2.2.1),
reshape2 (>= 1.4.2), gridExtra (>= 2.3), mvtnorm (>= 1.0.6),
KGode (>= 1.0.0), XML (>= 3.98.1.9),

Depends pracma (>= 2.0.7), pspline (>= 1.0.18)

RoxygenNote 6.0.1

NeedsCompilation no

Repository CRAN

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R topics documented:

| shinyKGode | *shinyKGode: A Shiny package for gradient matching parameter inference on ordinary differential equations.* |

Description

The shinyKGode package provides three main functions: a friendly Shiny-based user-interface to run gradient matching to solve ordinary differential equations, a selection of three built-in models and also the ability to import user-defined differential equations and perform parameter inference on them.

| startShinyKGode | *This function will start ShinyKGode.* |

Description

An interactive Shiny application for running gradient matching to approximate ODEs.

Usage

```
startShinyKGode()
```

Details

Start ShinyKGode

This starts the ShinyKGode application on the user's local computer.

Value

Nothing

Examples

```
{
if(interactive()){
  startShinyKGode()
  }
}
```

Index