Package ‘shinyKGode’

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Type Package

Title An Interactive Application for ODE Parameter Inference Using Gradient Matching

Version 1.0.5

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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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shinyKGode

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()
    }
}
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