Package ‘SpatialEpiApp’
August 29, 2017

Type Package
Title A Shiny Web Application for the Analysis of Spatial and Spatio-Temporal Disease Data
Version 0.3
Date 2017-08-28
Maintainer Paula Moraga <p.e.moraga-serrano@lancaster.ac.uk>
Description Runs a Shiny web application that allows to visualize spatial and spatio-temporal disease data, estimate disease risk and detect clusters. The application allows to fit Bayesian disease models to obtain risk estimates and their uncertainty by using the 'R-INLA' package, <http://www.r-inla.org>, and to detect clusters by using the scan statistics implemented in 'SaTScan', <https://www.satscan.org>. The application allows user interaction and creates interactive visualizations such as maps supporting padding and zooming and tables that allow for filtering. It also enables the generation of reports containing the analyses performed.
Imports dplyr, dygraphs, ggplot2, htmlwidgets, leaflet, mapproj, maptools, RColorBrewer, rgdal, rgeos, rmarkdown, shiny, shinyjs, SpatialEpi, spdep, xts
Suggests INLA, R.rsp
Additional_repositories https://inla.r-inla-download.org/R/stable
VignetteBuilder R.rsp
License GPL-3
URL https://github.com/Paula-Moraga/SpatialEpiApp
BugReports https://github.com/Paula-Moraga/SpatialEpiApp/issues
LazyData TRUE
RoxygenNote 6.0.1
NeedsCompilation no
Author Paula Moraga [aut, cre]
Repository CRAN
Date/Publication 2017-08-28 22:10:33 UTC
R topics documented:

- run_app .................................................. 2
- SpatialEpiApp ........................................... 2

Index

run_app         Runs the SpatialEpiApp Shiny web application.

Description

Runs the SpatialEpiApp Shiny web application.

Usage

run_app()

SpatialEpiApp         SpatialEpiApp: A Shiny web application for the analysis of spatial and spatio-temporal disease data.

Description

The SpatialEpiApp package runs a Shiny web application that allows to visualize spatial and spatio-temporal disease data, estimate disease risk and detect clusters. The application allows to fit Bayesian disease models to obtain risk estimates and their uncertainty by using R-INLA, and to detect clusters by using the scan statistics implemented in SaTScan. The application allows user interaction and creates interactive visualizations such as maps supporting padding and zooming and tables that allow for filtering. It also enables the generation of reports containing the analyses performed.
Index

run_app, 2

SpatialEpiApp, 2
SpatialEpiApp-package (SpatialEpiApp), 2