Package 'UnitStat'

October 12, 2022

Type Package

Title Performs Unit Root Test Statistics

Version 1.1.0

Description A test to understand the stability of the underlying
stochastic data. Helps the user's understand whether the random variable under
consideration is stationary or non-stationary without any manual interpretation
of the results. It further ensures to check all the prerequisites and assumptions which
are underlying the unit root test statistics and if the underlying data is found to be non-
stationary in all
the 4 lags the function diagnoses the input data and returns with an optimised solution on the same.

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.1

Depends lmtest

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Ankita Sharma [aut, cre]

Maintainer Ankita Sharma <ankita.sh49@gmail.com>

Repository CRAN

Date/Publication 2021-06-18 08:00:02 UTC

R topics documented:

UnitStat	*Performs Unit Root Test Statistics*

Description

'A test to understand the stability of the underlying stochastic data.Helps the user understand whether the random variable under consideration is stationary or non-stationary without any manual interpretation of the results.It further ensures to check all the prerequisites and assumptions which are underlying the unit root test statistics and if the underlying data is found to be non-stationary in all the 4 lags the function diagnoses the input data and returns with an optimised.

Usage

```
UnitStat(y, lag = 0, View_results = "True")
```

Arguments

y	Univariate time series or vector to be tested
lag	Numeric.Default is 0.Select Lags to view results at different lags. Maximum number of lags is 4
View_results	Boolean.Default is False. If True is selected the function returns results for all the 4 lags.

Value

An object with class UnitStat(). Retunrs with a statement explaining the type of input data and its stability. lag - Displays results for the lag number selected View_results - Shows all lag results

Author(s)

Ankita Sharma

References

Dickey, D. A. and Fuller, W. A. (1981), Likelihood Ratio Statistics for Autoregressive Time Series with a Unit Root, Econometrica, 49, 1057–1072. Hamilton (1994), Time Series Analysis, Princeton University Press

Examples

```
y = runif(50,1,49)
UnitStat(y)
UnitStat(y,View_results = "T") #To view results at all lags
```

Index