Package 'decomposedPSF'

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Type	Package
Title	Time Series Prediction with PSF and Decomposition Methods (EMD and EEMD)
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Auth	or Neeraj Bokde
Main	tainer Neeraj Bokde <neerajdhanraj@gmail.com></neerajdhanraj@gmail.com>
URL	https://www.neerajbokde.in/software/
Desci	ription Predict future values with hybrid combinations of Pattern Sequence based Forecasting (PSF), Autoregressive Integrated Moving Average (ARIMA), Empirical Mode Decomposition (EMD) and Ensemble Empirical Mode Decomposition (EEMD) methods based hybrid methods.
Licen	ase GPL
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R topics documented:	
	eemdarima 2 eemdpsf 2 eemdpsfarima 3 emdarima 3 emdpsf 4 emdpsfarima 4 lpsf 5

2 eemdpsf

Index 6

eemdarima

Function to predict with EEMD-ARIMA model

Description

Function to predict with EEMD-ARIMA model

Usage

```
eemdarima(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EEMD-ARIMA model

Examples

```
# eemdarima(data = nottem, n.ahead = 6)
```

eemdpsf

Function to predict with EEMD-PSF model

Description

Function to predict with EEMD-PSF model

Usage

```
eemdpsf(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EEMD-PSF model

Examples

```
# eemdpsf(data = nottem, n.ahead = 6)
```

eemdpsfarima 3

eemdpsfarima

Function to predict with EEMD-PSF,ARIMA model

Description

Function to predict with EEMD-PSF,ARIMA model

Usage

```
eemdpsfarima(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EEMD-PSF,ARIMA model

Examples

```
# eemdpsfarima(data = nottem, n.ahead = 6)
```

emdarima

Function to predict with EMD-ARIMA model

Description

Function to predict with EMD-ARIMA model

Usage

```
emdarima(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EMD-ARIMA model

Examples

```
# emdarima(data = nottem, n.ahead = 6)
```

4 emdpsfarima

 ${\tt emdpsf}$

Function to predict with EMD-PSF model

Description

Function to predict with EMD-PSF model

Usage

```
emdpsf(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EMD-PSF model

Examples

```
# emdpsf(data = nottem, n.ahead = 6)
```

emdpsfarima

Function to predict with EMD-PSF,ARIMA model

Description

Function to predict with EMD-PSF,ARIMA model

Usage

```
emdpsfarima(data, n.ahead)
```

Arguments

data as input time series data

n. ahead as horizon of values to be predicted

Value

predicted values with EMD-PSF,ARIMA model

Examples

```
# emdpsfarima(data = nottem, n.ahead = 6)
```

lpsf 5

lpsf

Function to restrict the legth of dataset in multiples of 24

Description

Function to restrict the legth of dataset in multiples of 24

Usage

```
lpsf(data, n.ahead)
```

Arguments

data as inpute time series

n.ahead as horizon of values to be predicted

Value

returns the predictied results

Index

```
eemdarima, 2
eemdpsf, 2
eemdpsfarima, 3
emdarima, 3
emdpsf, 4
emdpsfarima, 4
lpsf, 5
```