

Package ‘LogisticCurveFitting’

July 21, 2025

Type Package

Title Logistic Curve Fitting by Rhodes Method

Version 0.1.0

Description A system for fitting Logistic Curve by Rhodes Method. Method for fitting logistic curve by Rhodes Method is described in A.M.Gun,M.K.Gupta and B.Dasgupta(2019,ISBN:81-87567-81-3).

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.2

NeedsCompilation no

Author Debarghya Baul [aut, cre],
Arnab Roy [aut]

Maintainer Debarghya Baul <debarghyabaul@gmail.com>

Repository CRAN

Date/Publication 2022-06-15 07:10:17 UTC

Contents

rhodes.curve 1

Index 3

rhodes.curve	<i>Logistic Curve Fitting by Rhodes Method</i>
--------------	--

Description

This function fits the Logistic Curve in population Data by Rhodes Method along with estimates of the parameters and predicted value.

Usage

```
rhodes.curve(p)
```

Arguments

p a numeric vector

Details

Suppose we have n observations from population size corresponding to n equivalent time points say, at $t=0,1,\dots,n-1$. Here we assume the Logistic law of population growth, $p=L/(1+\exp(r^*(\beta-t)))$.

Value

r.hat , L.hat , beta.hat : the estimated values of the parameters r, L and beta.

predicted.values : the predicted values of p

Author(s)

Arnab Roy, Debarghya Baul.

Examples

```
u=c(12,15,16,18,16,21,25,27,29,30,35,36)
rhodes.curve(u)
```

Index

`rhodes.curve`, [1](#)