Package: LogisticCurveFitting (via r-universe)

September 17, 2024

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).

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Encoding UTF-8

RoxygenNote 7.1.2

NeedsCompilation no

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

Repository https://debarghya9394.r-universe.dev

RemoteUrl https://github.com/cran/LogisticCurveFitting

RemoteRef HEAD

RemoteSha 80bac7c2f2c69fd9cfb9ac8a64d4d2bbae0f02e1

Contents

rhodes.curve *Logistic Curve Fitting by Rhodes Method*

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,...,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)
```

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