Package 'CoxR2'

July 21, 2025

Title R-Squared Measure Based on Partial LR Statistic, for the Cox PH Regression Model Version 1.0 Date 2020-02-28 Author Hyeri You, Ronghui Xu Maintainer Hyeri You <h2you@health.ucsd.edu> Description Calculate the R-squared, aka explained randomness, based on the partial likelihood ratio statistic under the Cox Proportional Hazard model [J O'Quigley, R Xu, J Stare (2005) <doi:10.1002 sim.1946="">]. Depends survival, stats License GPL-2 NeedsCompilation no</doi:10.1002></h2you@health.ucsd.edu>			
		Repository CRAN	
		Date/Publication 20)20-03-19 14:10:08 UTC
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		coxr2	R-Squared under the Cox model

Description

Calculate the R-squared, aka explained randomness, based on the partial likelihood ratio statistic under the Cox model.

coxr2

Usage

```
##object is the result of a 'coxph'
coxr2(object)
```

Arguments

object

The result of a coxph fit

Details

Calculate the R-squared based on the partial likelihood ratio statistic under the Cox model. Difference in log partial likelihoods between the fitted model and the null model with no regressors is divided by the number of uncensored events, while the existing summary function divides it by the number of total observations.

Value

nevent number of uncensored events

logtest partial likelihood ratio test statistics

rsq explained randomness

Author(s)

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References

John O'Quigley, Ronghui Xu and Janez Stare, (2005), Explained randomness in proportional hazards models, STATISTICS IN MEDICINE, 24:479-489.

See Also

coxph, summary.coxph

Examples

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