

Package: CondiS (via r-universe)

September 17, 2024

Type Package

Title Censored Data Imputation for Direct Modeling

Version 0.1.2

Description Impute the survival times for censored observations based on their conditional survival distributions derived from the Kaplan-Meier estimator. 'CondiS' can replace the censored observations with the best approximations from the statistical model, allowing for direct application of machine learning-based methods. When covariates are available, 'CondiS' is extended by incorporating the covariate information through machine learning-based regression modeling ('CondiS_X'), which can further improve the imputed survival time.

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Encoding UTF-8

Depends R (>= 3.6)

Imports caret, survival, kernlab, purrr, tidyverse, survminer

NeedsCompilation no

Suggests rmarkdown, knitr

VignetteBuilder knitr

RoxygenNote 7.1.2

Author Yizhuo Wang [aut, cre]
(<<https://orcid.org/0000-0002-1870-0019>>), Ziyi Li [aut],
Xuelin Huang [aut], Christopher Flowers [ctb]

Maintainer Yizhuo Wang <ywang70@mdanderson.org>

Date/Publication 2022-04-17 03:12:29 UTC

Repository <https://yizhuo-wang.r-universe.dev>

RemoteUrl <https://github.com/cran/CondiS>

RemoteRef HEAD

RemoteSha 967222b2f83bac0e8b2af9aecbf7a27a30c2a313

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CondiS	<i>CondiS Function</i>
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Description

This function allows you to impute survival time.

Usage

```
CondiS(time, status, tmax)
```

Arguments

time	The follow up time for right-censored data.
status	The censoring indicator, normally 0=right censored, 1=event at time.
tmax	A self-defined time-of-interest point; if left undefined, then it is defaulted as the maximum follow up time.

CondiS_X	<i>CondiS-X Function</i>
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Description

This function allows you to improve the imputed survival time by incorporating covariate information.

Usage

```
CondiS_X(pred_time, status, covariates, method)
```

Arguments

pred_time	The imputed follow up time for right-censored data.
status	The censoring indicator, normally 0=right censored, 1=event at time.
covariates	The additional patient data that is presumably associated with the survival time.
method	Choose from 8 machine learning algorithms; the default is "glm".

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