Package ‘BrokenAdaptiveRidge’

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Maintainer Marc A. Suchard <msuchard@ucla.edu>
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Author Marc A. Suchard [aut, cre], Eric Kawaguchi [aut], Ning Li [aut], Gang Li [aut], Observational Health Data Sciences and Informatics [cph]
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createBarPrior  
**Create a BAR Cyclops prior object**

**Description**

createBarPrior creates a BAR Cyclops prior object for use with fitCyclopsModel.

**Usage**

```r
createBarPrior(
    penalty = "bic",
    exclude = c(),
    forceIntercept = FALSE,
    fitBestSubset = FALSE,
    initialRidgeVariance = 10000,
    tolerance = 1e-08,
    maxIterations = 10000,
    threshold = 1e-06,
    delta = 0
)
```

**Arguments**

- **penalty** Specifies the BAR penalty; possible values are 'BIC' or 'AIC' or a numeric value
- **exclude** A vector of numbers or covariateId names to exclude from prior
- **forceIntercept** Logical: Force intercept coefficient into regularization
- **fitBestSubset** Logical: Fit final subset with no regularization
- **initialRidgeVariance** Numeric: variance used for algorithm initiation
- **tolerance** Numeric: maximum abs change in coefficient estimates from successive iterations to achieve convergence
- **maxIterations** Numeric: maximum iterations to achieve convergence
- **threshold** Numeric: absolute threshold at which to force coefficient to 0
- **delta** Numeric: change from 2 in ridge norm dimension

**Value**

A BAR Cyclops prior object of class inheriting from "cyclopsPrior" for use with fitCyclopsModel.

**Examples**

```r
prior <- createBarPrior(penalty = "bic")
```
**createFastBarPrior**

*Create a fastBAR Cyclops prior object*

**Description**

`createFastBarPrior` creates a fastBAR Cyclops prior object for use with `fitCyclopsModel`.

**Usage**

```r
createFastBarPrior(
  penalty = 0,
  exclude = c(),
  forceIntercept = FALSE,
  fitBestSubset = FALSE,
  initialRidgeVariance = 10000,
  tolerance = 1e-08,
  maxIterations = 10000,
  threshold = 1e-06
)
```

**Arguments**

- `penalty`: Specifies the BAR penalty
- `exclude`: A vector of numbers or covariateId names to exclude from prior
- `forceIntercept`: Logical: Force intercept coefficient into regularization
- `fitBestSubset`: Logical: Fit final subset with no regularization
- `initialRidgeVariance`: Numeric: variance used for algorithm initiation
- `tolerance`: Numeric: maximum abs change in coefficient estimates from successive iterations to achieve convergence
- `maxIterations`: Numeric: maximum iterations to achieve convergence
- `threshold`: Numeric: absolute threshold at which to force coefficient to 0

**Value**

A BAR Cyclops prior object of class inheriting from "cyclopsPrior" for use with `fitCyclopsModel`.

**Examples**

```r
nobs = 500; ncovs = 100
prior <- createFastBarPrior(penalty = log(ncovs), initialRidgeVariance = 1 / log(ncovs))
```
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