Package 'ncpen'

August 8, 2017

туре Раскаде
Title Nonconvex penalty estimation
Version 0.1.4
Date 2017-08-08
Author Dongshin Kim, Sunghoon Kwon, Sangin Lee
Maintainer Dongshin Kim <dongshin.kim@outlook.com>, Sunghoon Kwon <a@b.edu></a@b.edu></dongshin.kim@outlook.com>
Description Estimates nonconvex penalty
License GPL (>= 2)
LazyLoad yes
LazyData TRUE
Imports Rcpp (>= 0.12.12)
LinkingTo Rcpp, RcppArmadillo
RoxygenNote 6.0.1
Archs i386, x64
R topics documented:
cpp.p.ncpen.fun cpp.qlasso.fun hello print.ncpen rcpp_hello
cpp.p.ncpen.fun Quadratic LASSO estimation.

Description

qlasso. fun returns

This is a generic function: methods can be defined for it directly or via the Summary group generic. For this to work properly, the arguments abc should be unnamed, and dispatch is on the first argument.

2 cpp.p.ncpen.fun

Usage

```
cpp.p.ncpen.fun(y.vec, x.mat, b.vec, w.vec, lam, gam, tau, iter.max, b.eps,
   k.eps, p.eff, r.eff, family, penalty)
```

Arguments

q.mat A numeric matrix....

1.vec A numeric vector....

Value

This returns..... If integer overflow http://en.wikipedia.org/wiki/Integer_overflow occurs, the output will be NA with a warning. Otherwise it will be a length-one numeric or complex vector.

Zero-length vectors have sum 0 by definition. See http://en.wikipedia.org/wiki/Empty_sum for more details.

Note

Leave some notes here.

Author(s)

Sunghoon Kwon, Dongshin Kim

References

Paper 1 by Big Name

See Also

See this also....

Examples

```
fam = "lin"
pen = "scad"

a = 3 + 4;
a

## Not run:
qlasso.fun("a")
## End(Not run)
```

cpp.qlasso.fun 3

cpp.qlasso.fun

NCPEN.Fun

Description

```
qlasso. fun returns ......
```

This is a generic function: methods can be defined for it directly or via the Summary group generic. For this to work properly, the arguments abc should be unnamed, and dispatch is on the first argument.

Usage

```
cpp.qlasso.fun(q.mat, l.vec, b.vec, w.vec, lam, iter.max, b.eps, k.eps, p.eff,
   q.rank)
```

Arguments

q.mat A numeric matrix....

1.vec A numeric vector....

Value

This returns..... If integer overflow http://en.wikipedia.org/wiki/Integer_overflow occurs, the output will be NA with a warning. Otherwise it will be a length-one numeric or complex vector.

Zero-length vectors have sum 0 by definition. See http://en.wikipedia.org/wiki/Empty_sum for more details.

Note

Leave some notes here.

Author(s)

Sunghoon Kwon, Dongshin Kim

References

Paper 1 by Big Name

See Also

See this also....

print.ncpen

Examples

```
fam = "lin"
pen = "scad"

a = 3 + 4;
a

## Not run:
qlasso.fun("a")
## End(Not run)
```

hello

Hello, World!

Description

Prints 'Hello, world!'.

Usage

hello()

Examples

hello()

print.ncpen

NCPEN.

Description

```
qlasso.fun returns .....
```

This is a generic function: methods can be defined for it directly or via the Summary group generic. For this to work properly, the arguments abc should be unnamed, and dispatch is on the first argument.

Usage

```
## S3 method for class 'ncpen'
print(x)
```

Arguments

q.mat A numeric matrix....

1.vec A numeric vector....

rcpp_hello 5

Value

This returns..... If integer overflow http://en.wikipedia.org/wiki/Integer_overflow occurs, the output will be NA with a warning. Otherwise it will be a length-one numeric or complex vector

Zero-length vectors have sum 0 by definition. See http://en.wikipedia.org/wiki/Empty_sum for more details.

Note

Leave some notes here.

Author(s)

Sunghoon Kwon, Dongshin Kim

References

Paper 1 by Big Name

See Also

See this also....

Examples

```
fam = "lin"
pen = "scad"

a = 3 + 4;
a

## Not run:
qlasso.fun("a")
## End(Not run)
```

rcpp_hello

Hello, Rcpp!

Description

Returns an R list containing the character vector c("foo", "bar") and the numeric vector c(0, 1).

Usage

```
rcpp_hello()
```

Examples

```
rcpp_hello()
```

Index

```
cpp.p.ncpen.fun, 1
cpp.qlasso.fun, 3
hello, 4
print.ncpen, 4
rcpp_hello, 5
Summary, 1, 3, 4
```