Package 'truncatedNormals'

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Title R functions for truncated univariate normal distributions
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Depends R (>= 2.8)
Description R functions to simulate from and calculate densities and probabilities for univariate truncated normal distributions (left, right or interval truncated). Supported by the National Science Foundation under award number DMS-0604963.
License GPL-3
<pre>URL http://www.r-project.org, http://www.stat.osu.edu/~pfc/</pre>
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dnorm.truncated Calculate density function for truncated normal random variables
Description Calculate density function for truncated normal random variables
<pre>Usage dnorm.truncated(x, mu, sd, lower, upper, log)</pre>
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Arguments

x value to calculate density at

mu mean

sd standard deviation
lower lower truncation point
upper upper truncation point

log if TRUE, calculate the log density

Value

A vector of density values

Author(s)

Peter F. Craigmile

pnorm.truncated

Calculate distribution function for truncated normal random variables

Description

Calculate distribution function for truncated normal random variables

Usage

```
pnorm.truncated(q, mu, sd, lower, upper, log.p)
```

Arguments

q quantile to calculate

mu mean

sd standard deviation
lower lower truncation point
upper upper truncation point

log.p if TRUE, probabilities are given as log(p)

Value

A vector of probabilities

Author(s)

Peter F. Craigmile

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rnorm.truncated

Generate truncated normal random variables

Description

Generate truncated normal random variables

Usage

```
rnorm.truncated(n, mu, sd, lower, upper)
```

Arguments

n number of variables to generate

mu mean

sd standard deviation

lower lower truncation point

upper upper truncation point

Value

A vector of truncated random variables

Author(s)

Christopher Hans and Peter F. Craigmile

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