

Package ‘distrTEst’

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Title Estimation and Testing Classes Based on Package 'distr'

Description Evaluation (S4-)classes based on package distr for evaluating procedures (estimators/tests) at data/simulation in a unified way.

Depends R(>= 3.4), methods, graphics, setRNG(>= 2006.2-1), distrSim(>= 2.2)

Imports startupmsg, utils

Suggests distrEx(>= 2.2)

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distrTEst-package *distrTEst – Estimation and Testing Classes Based on Package distr*

Description

distrTEst provides (S4-)classes for evaluating procedures (estimators/tests) at data/simulation in a unified way based on package **distr**. This is achieved by means of the S4 class `Evaluation`. The package is based on our packages **distr** and **distrSim**, hence uses distribution classes and simulation classes as introduced there to capture the situation from which the simulations stem.

Details

| | |
|------------------|---|
| Package: | distrTEst |
| Version: | 2.8.1 |
| Date: | 2022-11-12 |
| Depends: | R(>= 3.4), methods, graphics, setRNG(>= 2006.2-1), distrSim(>= 2.2) |
| Imports: | startupmsg, utils |
| Suggests: | distrEx(>= 2.2) |
| LazyLoad: | yes |
| License: | LGPL-3 |
| URL: | https://distr.r-forge.r-project.org/ |
| VCS/SVNRevision: | 1380 |

Classes

```

"Evaluation"
  slots: [<name><class>]
  name(character), filename(character), call.ev(call),
  Data(Dataclass), result(DataframeorNULL),
  estimator(OptionalFunction)
"EvaluationList"
  slots: [<name><class>]
  name(character), Elist(list)

```

Objects of class "Evaluation" are generated by a call to [evaluate](#).

Methods

| | |
|------------|--|
| plot | plot method for "Evaluation" and for "EvaluationList" |
| print,show | print/show method for "Evaluation" and for "EvaluationList" |
| summary | summary method for "Evaluation" and for "EvaluationList" |
| Data | accessor method for "Evaluation", and, for "EvaluationList" returns common Data |

Slot accessors / -replacement functions

All slots are inspected / modified by corresponding accessors / -replacement functions, e.g. `call.ev(X)` or `filename(X)<-"myevaluation.sav"` for an object of class "Evaluation".

Start-up-Banner

You may suppress the start-up banner/message completely by setting `options("StartupBanner"="off")` somewhere before loading this package by `library` or `require` in your R-code / R-session. If option "StartupBanner" is not defined (default) or setting `options("StartupBanner"=NULL)` or `options("StartupBanner"="complete")` the complete start-up banner is displayed. For any other value of option "StartupBanner" (i.e., not in `c(NULL, "off", "complete")`) only the version information is displayed. The same can be achieved by wrapping the `library` or `require` call into either `suppressStartupMessages()` or `onlytypeStartupMessages(., atypes="version")`. As for general packageStartupMessage's, you may also suppress all the start-up banner by wrapping the `library` or `require` call into `suppressPackageStartupMessages()` from **startupmsg**-version 0.5 on.

Package versions

Note: The first two numbers of package versions do not necessarily reflect package-individual development, but rather are chosen for the `distrXXX` family as a whole in order to ease updating "depends" information.

Note

Global options controlling the plots and summaries of Evaluationlist objects may be inspected / set by `distrTEstoptions()` and `getdistrTEstOption()`.

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References

A vignette for packages **distr**, **distrSim**, **distrTEst**, and **distrEx** is included into the mere documentation package **distrDoc** and may be called by `require("distrDoc");vignette("distr")`. A homepage to this package is available under <https://distr.r-forge.r-project.org/>

See Also

[distr-package](#), [distrSim-package](#), [setRNG](#)

call.ev-methods

Methods for Function call.ev in Package 'distrTEst'

Description

call.ev-methods

Methods

call.ev signature(object = "Evaluation"): returns the call which created the object

Data-methods

Methods for Function Data in Package 'distrTEst'

Description

Data-methods

Methods

Data signature(object = "Evaluation"): returns the Data slot

Data signature(object = "EvaluationList"): returns the common Data slot of the respective list elements

distrTEoptions *functions to change the global variables of the package 'distrTEst'*

Description

With `distrTEoptions` and `getdistrTEstOption` you may inspect and change the global variables used by package **distrTEst**.

Usage

```
distrTEoptions(...)
getdistrTEstOption(x)
```

Arguments

... any options can be defined, using name = value or by passing a list of such tagged values.

x a character string holding an option name.

Details

Invoking `distrTEoptions()` with no arguments returns a list with the current values of the options. To access the value of a single option, one should use `getdistrTEstOption("MaxNumberOfSummarizedEvaluations")` e.g., rather than `distrTEoptions("MaxNumberOfSummarizedEvaluations")` which is a *list* of length one.

Value

`distrTEoptions()` returns a list of the global options of **distrTEst**.
`distrTEoptions("MaxNumberOfSummarizedEvaluations")` returns the global option `MaxNumberOfSummarizedEvaluations` as a list of length 1.
`distrTEoptions("MaxNumberOfSummarizedEvaluations" = 3)` sets the value of the global option `MaxNumberOfSummarizedEvaluations` to 3. `getdistrTEstOption("MaxNumberOfSummarizedEvaluations")` the current value set for option `MaxNumberOfSummarizedEvaluations`.

Currently available options

MaxNumberOfPlottedEvaluations maximal number of evaluations plotted; defaults to 6

MaxNumberOfPlottedEvaluationDims maximal number of evaluation dimensions plotted in parallel; defaults to 6

MaxNumberOfSummarizedEvaluations maximal number of evaluations summarized in parallel; defaults to 15

MaxNumberOfPrintedEvaluations maximal number of evaluations printed in parallel; defaults to 15

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See Also

[options](#), [getOption](#), [distrOptions](#), [getDistrOption](#)

Examples

```
distrTEstoptions()
distrTEstoptions("MaxNumberOfPlottedEvaluationDims")
distrTEstoptions("MaxNumberOfPlottedEvaluationDims" = 5)
# or
getDistrTEstOption("MaxNumberOfPlottedEvaluationDims")
```

estimator-methods *Methods for Function estimator in Package 'distrTEst'*

Description

estimator-methods

Methods

estimator signature(object = "Evaluation"): returns the estimator

evaluate-methods *Methods for Function evaluate in Package 'distrTEst'*

Description

evaluate-methods to produce objects of class "Evaluation"

Arguments

| | |
|-----------|---|
| object | the data set / simulation on which the evaluation takes place |
| estimator | the estimation function used; should be able to deal with data in matrix form <code>samplesize x obsDim</code> , and, should return either a univariate result or a vector (with named coordinates, if possible). |
| resname | (a vector of) character(s); the name for the univariate results or, in the case of multivariate results, and if the coordinates of the results have not yet been named, the basic name for them which is pasted to the coordinate number for each coordinate. |
| name | character; the name for the Evaluation object; by default the (R-)name of the Data set object. |
| filename | character; the filename for the Evaluation object (where it is to be saved to); by default the filename of the Data set object which is concatenated with the name of the estimator in <code>savedata</code> . |

Details

besides the arguments determining the method dispatch, we have:

```
evaluate(object, estimator, ..., rename = "res",
         name = as.character(substitute(object)),
         filename = filename(object))
```

Methods

evaluate signature(object = "Dataclass", estimator = "function"): creates an object of class "Evaluation", see there for further information

evaluate signature(object = "Contsimulation", estimator = "function"): creates an object of class "Evaluation", see there for further information

See Also

[Evaluation-class](#)

| | |
|------------------|---------------------------|
| Evaluation-class | <i>Class "Evaluation"</i> |
|------------------|---------------------------|

Description

When an estimator is used to data of the type "Dataclass" with the method evaluate, the result is an object of class "Evaluation".

Objects from the Class

Objects could be created by calls of the form `new("Evaluation", Data, estimator, [result, name, filename, call.ev])`. It does not seem to be very useful to generate a new object this way, however. It is to be preferred to use "evaluate" with a Dataclass object!

Slots

`call.ev` Object of class "call": the call which created the object, e.g.; "evaluate(Dataclassobject,mean)"

`Data` Object of class "Dataclass": the data set / simulation on which the evaluation takes place.

`estimator` Object of class "OptionalFunction": estimation function used; this estimation function should be able to deal with data in matrix form `samplesize x obsDim` and should return either a univariate result or a vector (with named coordinates, if possible).

`filename` Object of class "character": the filename of the evaluation; by default the filename of the Dataclass object, which was called by evaluate

`name` Object of class "character": the name of the evaluation; by default the name of the Dataclass object, which was called by evaluate

`result` Object of class "DataframeorNULL": the result of the evaluation of the estimation on data

Accessors/Replacement functions

call.ev no replacement possible
estimator no replacement possible
filename replacement possible
name replacement possible
result no replacement possible

Methods

initialize signature(.Object = "Evaluation"): initialize method
plot signature(object = "Evaluation"): returns a boxplot of the result
print signature(object = "Evaluation"): returns the name of the data object, its filename, the estimator used and the result
savedata signature(object = "Evaluation"): saves the object in two files in the directory of R - one with data, one without as comment file (see example)
summary signature(object = "Evaluation"): returns the name of the data object, its filename, the estimator used and a statistical summary of the result

Note

The saved "evaluation" can be loaded with the usual load-command, the saved comment with the function cload.

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See Also

[Dataclass-class](#) [Simulation-class](#) [Contsimulation-class](#) [load](#) [cload](#) [savedata-methods](#)
[plot-methods](#) [simulate-methods](#) [summary-methods](#)

Examples

```
N <- Norm() # N is a standard normal distribution.
C <- Cauchy() # C is a Cauchy distribution
cs <- Contsimulation(filename = "csim",
                    runs = 5,
                    samplesize=5000,
                    seed=setRNG(),
                    distribution.id = N,
                    distribution.c = C,
                    rate = 0.1)

simulate(cs)
```



```

# Each of the 25000 random numbers is ideal (N-distributed) with
# probability 0.9 and contaminated (C-distributed) with probability = 0.1
summary(cs)
ev1 <- evaluate(cs, mean, resname="mean") # estimates the data with mean
ev1 # bad results
ev2 <- evaluate(cs,median, resname="median") # estimates the data with median
ev2 # better results because median is robust
savedata(ev1)
# saves the evaluation with result as "csim.mean" and without result as
# "csim.mean.comment" in the working directory # of R - "csim" is the
# filename of the Contsimulation object, mean the name of the estimator
rm(ev1)
cload("csim.mean")
# loads the evaluation without result - the object is called ev1.comment
ev1.comment
load("csim.mean") # loads the evaluation with result
ev1
plot(ev1)
#
#clean up
unlink("csim.mean")
unlink("csim.mean.comment")
#
#another function to be evaluated:
severalThings<- function(x) {list("mean"=mean(x),"sd"=sd(as.vector(x)), "mad"=mad(x))}
ev3 <- evaluate(cs, severalThings, resname="several")
plot(ev3)
plot(ev3, ylim=c(0,10), col=c("blue", "green", "red"))

```

EvaluationList-class *Class "EvaluationList"*

Description

Several objects of class "Evaluation" may be gathered in a list of class "EvaluationList", if they all have the same result-format and also share the same data-set.

Objects from the Class

Objects may be created by the generating function EvaluationList, i.e.; EvaluationList(..., name0 = "a list of \"Evaluation\" objects"), where all arguments passed through ... have to be objects of class "Evaluation", the corresponding result-slots have to contain data.frames of identical dimension; the corresponding calls have to have identical object-arguments (for the data set), and the corresponding Data-slots have to be identical.

Slots

name: Object of class "character": the name of the EvaluationList object

Elist: Object of class "list": the list of Evaluation objects

Accessor/Replacement methods

Elist signature(object = "EvaluationList"): returns the list with the Evaluation objects
name signature(object = "EvaluationList"): returns/modifies the name of the Evaluation-List object

Methods

Data signature(object = "EvaluationList"): returns the common Data-slot of one of the Evaluation objects
plot signature(object = "EvaluationList"): returns grouped boxplots of the results
print signature(object = "EvaluationList"): for each list element returns the name of the data object, its filename, the estimator used and the result
show signature(object = "EvaluationList"): as print
summary signature(object = "EvaluationList"): returns the name of the data object, its filename, the estimator used and a statistical summary of the result

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See Also

[Dataclass-class](#) [Simulation-class](#) [Contsimulation-class](#) [Evaluation-class](#) [print-methods](#)
[plot-methods](#) [simulate-methods](#) [summary-methods](#)

Examples

```
N <- Norm() # N is a standard normal distribution.
C <- Cauchy() # C is a Cauchy distribution
cs <- Contsimulation(filename = "csim",
                    runs = 15,
                    samplesize=500,
                    seed=setRNG(),
                    distribution.id = N,
                    distribution.c = C,
                    rate = 0.1)

simulate(cs)
# Each of the 25000 random numbers is ideal (N-distributed) with
# probability 0.9 and contaminated (C-distributed) with probability = 0.1
summary(cs)
ev1 <- evaluate(cs, mean) # estimates the data with mean
ev1 # bad results
ev2 <- evaluate(cs, median) # estimates the data with median
ev2 # better results because median is robust
savedata(ev1)
# saves the EvaluationList with result as "csim.mean" and without result as
```

```

# "csim.mean.comment" in the working directory # of R - "csim" is the
# filename of the Contsimulation object, mean the name of the estimator
rm(ev1)
cload("csim.mean")
# loads the EvaluationList without result - the object is called ev1.comment
ev1.comment
load("csim.mean") # loads the EvaluationList with result
ev1
ElistObj <- EvaluationList(ev1, ev2, name0="myEvalList")
plot(ElistObj, ylim=matrix(c(-0.5, 0.5, 0.5, 4), nrow=2), main=c("location", "scale"))
plot(ElistObj, ylim=c(-0.5, 0.5), main=c("location"), runs0=3:12, dims0=1, evals0=2)
ElistObj
summary(ElistObj)
#clean up
unlink("csim.mean")
unlink("csim.mean.comment")

```

filename-methods

Methods for Function filename in Package 'distrTEst'

Description

filename-methods

Methods

filename signature(object = "Evaluation"): returns the filename of the evaluated object

name-methods

Methods for Function name in Package 'distrTEst'

Description

name-methods

Methods

name signature(object = "Evaluation"): returns the slot name of data object

name<- signature(.Object = "Evaluation"): modifies the slot name of data object

numericorNULL-class *Classes "numericorNULL", "CallorNULL", and "DataframeorNULL"*

Description

auxiliary classes; may contain either a numeric vector or NULL [or a call / data.frame or NULL, respectively].

Objects from the Class

A virtual Class: No objects may be created from it.

Methods

No methods defined with class "numericorNULL", "CallorNULL", and "DataframeorNULL" in the signature.

Note

From version 1.8, the result slot of an object of class evaluation is of type "DataframeorNULL"

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See Also

[Evaluation-class](#)

plot-methods *Methods for Function plot in Package 'distrTEst'*

Description

plot-methods

Value

An S3 object of class c("plotInfo", "DiagnInfo"), i.e., a list containing the information needed to produce the respective plot, which at a later stage could be used by different graphic engines (like, e.g. ggplot) to produce the plot in a different framework. A more detailed description will follow in a subsequent version.

Methods

- plot** signature(x = "Evaluation", y="missing"): returns a boxplot of the result
- plot** signature(x = "EvaluationList", y="missing"): regroupes the list according to the different columns/coordinates of the result of the evaluation; for each such coordinate a boxplot is generated containing possibly several procedures and if evaluated at a `Contsimulation` object also grouped into evaluations on ideal and real data. The plot-arguments `main` and `ylim` may be transmitted coordinatewise (i.e.; a vector of length (result-dimension), respectively a 2 x (result-dimension) matrix) or globally, using the usual recycling rules.

print-methods

Methods for Functions print and show in Package 'distrTEst'

Description

print/show-methods

Methods

- print** signature(x = "Evaluation"): returns the name of the data object, its filename, the estimator used and the result; optional arguments:
- runs0** the indices of runs to be summarized;
 - dims0** the indices of result dimensions to be summarized;
- internal argument:
- inList** decides if name of Dataobject and Datafile are printed out (which is done if `inLIST==FALSE`); defaults to `FALSE` but is `TRUE` when `summary` is called from `summary-method` for signature(object = "EvaluationList")
- print** signature(object = "EvaluationList"): after printing the name of the list, for each member of the list `print` is executed; optional arguments:
- eval0** the indices of evaluations to be summarized;— of this vector `eval0` maximally `MaxNumberOfSummarizedEvaluations` evaluations are summarized where `MaxNumberOfPrintedEvaluations` is a global option, see [distrTEstoptions](#)
 - runs0** the indices of runs to be summarized;
 - dims0** the indices of observation dimensions to be summarized;
- show** signature(x = "Evaluation"): the same as `print` (without optional arguments)
- show** signature(x = "EvaluationList"): the same as `print` (without optional arguments)

| | |
|----------------|---|
| result-methods | <i>Methods for Function result in Package 'distrTEst'</i> |
|----------------|---|

Description

result-methods

Methods

result signature(object = "Evaluation"): returns the result of an evaluation

| | |
|------------------|---|
| savedata-methods | <i>Methods for Function savedata in Package 'distrTEst'</i> |
|------------------|---|

Description

savedata-methods

Methods

savedata signature(object = "Evaluation"): saves the object in two files in the directory of R - one with data —filename = <filename>—, one without as comment file —filename = <filename>.comment—(see example); <filename>the filename can be specified in the optional argument fileN; by default it is concatenated from the filename of the Dataclass object and the estimatorname, which you may either pass as argument estimatorName or it is taken as the R-name of the corresponding R-function.

Note

For an example, see [Simulation-class](#) and [Contsimulation-class](#)

See Also

[Dataclass-class](#) [Simulation-class](#) [Contsimulation-class](#) [Evaluation-class](#)

Description

summary-methods

Methods

summary signature(object = "Evaluation"): returns the name of the data object, its filename, the estimator used and a statistical summary of the result; optional arguments:

runs0 the indices of runs to be summarized;

dims0 the indices of result dimensions to be summarized;

internal argument:

inList decides if name of Dataobject and Datafile are printed out (which is done if inLIST==FALSE); defaults to FALSE but is TRUE when summary is called from summary-method for signature(object = "EvaluationList")

summary signature(object = "EvaluationList"): returns, for each member of the list a summary of the corresponding Evaluation object; optional arguments:

eval0 the indices of evaluations to be summarized;— of this vector eval0 maximally MaxNumberOfSummarizedEvaluations are summarized where MaxNumberOfSummarizedEvaluations is a global option, see [distrTEstoptions](#)

runs0 the indices of runs to be summarized;

dims0 the indices of observation dimensions to be summarized;

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