

Package: ROI.models.globalOptTests (via r-universe)

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Type Package

Title 'ROI' Optimization Problems Based on 'globalOptTests'

Version 1.1-1

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Description A collection of non-linear optimization problems with box bounds transformed into 'ROI' optimization problems. This package provides a wrapper around the 'globalOptTests' which provides a collection of global optimization problems. More information can be found in the 'README' file.

Imports ROI (>= 0.3-0), globalOptTests

Suggests Rglpk (>= 0.6-2)

License GPL-3

RoxygenNote 6.0.1

NeedsCompilation no

Repository CRAN

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`globopt``Access globalOptTests`

Description

Get one or more optimization problems, meta information or a listing of the available `globalOptTests` problems.

Usage

```
globopt(x = c("all", "metainfo", "Ackleys", "AluffiPentini",
             "BeckerLago", "Bohachevsky1", "Bohachevsky2",
             "Branin", "Camel3", "Camel6", "CosMix2", "CosMix4",
             "DekkersAarts", "Easom", "EMichalewicz", "Expo",
             "GoldPrice", "Griewank", "Gulf", "Hartman3",
             "Hartman6", "Hosaki", "Kowalik", "LM1", "LM2n10",
             "LM2n5", "McCormic", "MeyerRoth", "MieleCantrell",
             "Modlangerman", "ModRosenbrock", "MultiGauss",
             "Neumaier2", "Neumaier3", "Paviani", "Periodic",
             "PowellQ", "PriceTransistor", "Rastrigin",
             "Rosenbrock", "Salomon", "Schaffer1", "Schaffer2",
             "Schubert", "Schwefel", "Shekel10", "Shekel5",
             "Shekel17", "Shekelfox5", "Wood", "Zeldasine10",
             "Zeldasine20"))
```

Arguments

`x` a character giving the names of the optimization problems to be returned, if `x` is "all" all available problems are returned, if `x` is the name of a single problem the given problem is returned. If `x` is missing a listing of all available problems is returned. If `x` is "metainfo" the meta information about the problems is returned.

Examples

```
## list all available MIPLIB-2010 problems
globopt()
## get all miplib problems
globopt("all")
## get a single problem
globopt("MieleCantrell")
## get the meta information
globopt("metainfo")
```

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