

Package ‘ROI.models.globalOptTests’

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Type Package

Title 'ROI' Optimization Problems Based on 'globalOptTests'

Version 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	<i>Access globalOptTests</i>
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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",  
"Shekel15", "Shekel7", "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.
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Examples

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

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