

Package ‘ROI.models.globalOptTests’

October 12, 2022

Type Package

Title 'ROI' Optimization Problems Based on 'globalOptTests'

Version 1.1-1

Author Florian Schwendinger [aut, cre]

Maintainer Florian Schwendinger <FlorianSchwendinger@gmx.at>

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

Date/Publication 2020-08-29 19:10:08 UTC

R topics documented:

globopt	1
Index	3

globopt	<i>Access globalOptTests</i>
---------	------------------------------

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",  
             "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.
---	---

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")
```

Index

`globopt`, 1