My Project

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1	Hierarchical Index	1
	1.1 Class Hierarchy	1
2	Class Index	3
	2.1 Class List	3
3	Class Documentation	5
	3.1 optimazation.pkg1.CreateCSV Class Reference	5
	3.1.1 Detailed Description	5
	3.1.2 Member Function Documentation	5
	3.1.2.1 CreateCsv()	5
	3.1.2.2 CreateCsv0()	6
	3.1.2.3 CreateCsv1()	6
	3.2 optimazation.pkg1.CreateMatrix Class Reference	7
	3.2.1 Detailed Description	7
	3.2.2 Constructor & Destructor Documentation	7
	3.2.2.1 CreateMatrix()	7
	3.2.3 Member Function Documentation	8
	3.2.3.1 add()	8
	3.2.3.2 create()	8
	3.3 optimazation.pkg1.Functioning Class Reference	8
	3.3.1 Detailed Description	9
	3.3.2 Member Function Documentation	9
	3.3.2.1 bestVector()	9
	3.3.2.2 funct()	9
	3.4 optimazation.pkg1.Functions Class Reference	10
	3.4.1 Detailed Description	10
	3.4.2 Member Function Documentation	10
	3.4.2.1 Ackely2()	10
	3.4.2.2 Ackley1()	11
	3.4.2.3 Alpine()	11
	3.4.2.4 DeJong()	11
	3.4.2.5 EggHolder()	12
	3.4.2.6 Griewangk()	12
	3.4.2.7 Levy()	12
	3.4.2.8 Masters()	12
	3.4.2.9 Michalewicz()	13
	3.4.2.10 Pathological()	13
	3.4.2.11 Quartic()	13
	3.4.2.12 Rana()	14
	3.4.2.13 Rastrigin()	14
	3.4.2.14 Rosenbrock()	14
	3.4.2.15 Schwefel()	14
	5.1.2.10 501m5101y	

Index

3.4.2.16 SineEnvelope()	15
3.4.2.17 Step()	15
3.4.2.18 StretchedV()	15
3.5 optimazation.pkg1.lterativeLocalSearch Class Reference	16
3.5.1 Detailed Description	16
3.5.2 Constructor & Destructor Documentation	16
3.5.2.1 IterativeLocalSearch()	16
3.6 optimazation.pkg1.LocalSearch Class Reference	17
3.6.1 Detailed Description	17
3.6.2 Constructor & Destructor Documentation	17
3.6.2.1 LocalSearch()	17
3.7 optimazation.pkg1.Main Class Reference	18
3.7.1 Detailed Description	18
3.7.2 Member Function Documentation	18
3.7.2.1 main()	18
3.8 optimazation.pkg1.MTRandom Class Reference	19
3.8.1 Detailed Description	19
3.8.2 Constructor & Destructor Documentation	20
3.8.2.1 MTRandom() [1/5]	20
3.8.2.2 MTRandom() [2/5]	20
3.8.2.3 MTRandom() [3/5]	20
3.8.2.4 MTRandom() [4/5]	21
3.8.2.5 MTRandom() [5/5]	21
3.8.3 Member Function Documentation	21
3.8.3.1 next()	21
3.8.3.2 pack()	22
3.8.3.3 setSeed() [1/3]	23
3.8.3.4 setSeed() [2/3]	23
3.8.3.5 setSeed() [3/3]	24
3.9 optimazation.pkg1.RandomWalk Class Reference	24
3.9.1 Detailed Description	24
3.9.2 Member Function Documentation	24
3.9.2.1 randomWalk()	24

27

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

optimazation.pkg1.CreateCSV	
optimazation.pkg1.CreateMatrix	7
optimazation.pkg1.Functioning	8
optimazation.pkg1.Functions	10
optimazation.pkg1.IterativeLocalSearch	16
optimazation.pkg1.LocalSearch	17
optimazation.pkg1.Main	18
optimazation.pkg1.RandomWalk	24
Random	
optimazation.pkg1.MTRandom	19

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

optimazation.pkg1.CreateCSV														
CreateCSV (p. 5) class														5
optimazation.pkg1.CreateMatrix														
CreateMatrix (p. 7) class														7
optimazation.pkg1.Functioning														
Functioning (p. 8) class														8
optimazation.pkg1.Functions														10
optimazation.pkg1.lterativeLocalSearc	ch													16
optimazation.pkg1.LocalSearch														17
optimazation.pkg1.Main														
Optimization1 class														18
optimazation.pkg1.MTRandom														19
optimazation.pkg1.RandomWalk														24

4 Class Index

Chapter 3

Class Documentation

3.1 optimazation.pkg1.CreateCSV Class Reference

CreateCSV (p. 5) class.

Public Member Functions

- void **CreateCsv** (double[][] a, int rows, String b)
- void CreateCsv0 (double[][] a, int colums, String C) throws IOException
- void CreateCsv1 (double[][]a, String C) throws IOException

3.1.1 Detailed Description

```
CreateCSV (p. 5) class.
```

Author

```
JuneYeob Lee(2462 9603)
```

.

This class is for creating CSV file about results

Date

```
4/5/2019 !\Contact:Leej @cwu.edu !\Created on: 3/28/2019
```

3.1.2 Member Function Documentation

3.1.2.1 CreateCsv()

```
void optimazation.pkgl.CreateCsV.CreateCsv ( \label{eq:condition} \mbox{double $a[\ ][\ ]$,} \\ \mbox{int $rows$,} \\ \mbox{String $b$ )}
```

CreateCsv method this method will create csv file and calculate datas for csv file

Parameters

а	
rows	
b	

message if cannot find file

3.1.2.2 CreateCsv0()

```
void optimazation.pkg1.CreateCsV.CreateCsv0 ( \label{eq:condition} \mbox{double $a[\ ][\ ]$,} \\ \mbox{int $colums$,} \\ \mbox{String $C$ ) throws IOException}
```

This method for creating the csv file of the best solution

Parameters

а	(a for the best solution);
colums	(the number of colums)
С	

Exceptions

```
IOException
```

3.1.2.3 CreateCsv1()

```
void optimazation.pkg1.CreateCsV.CreateCsv1 ( \label{eq:control} \mbox{doublea [][],} \\ \mbox{String $\mathcal{C}$ ) throws IOException}
```

Parameters

a(th	best solutions 2d array length should be 18 size should be the number of itera	ation)
С	(File name)	

Exceptions

IOException

The documentation for this class was generated from the following file:

CreateCSV.java

3.2 optimazation.pkg1.CreateMatrix Class Reference

CreateMatrix (p. 7) class.

Public Member Functions

· CreateMatrix ()

A constructor(default)

• CreateMatrix (int a, int b)

A constructor.

• void create (int length, int size)

this method will create input 2d arrays with all 0.0

• void add (double min, double max, String a) throws FileNotFoundException, UnsupportedEncodingException

3.2.1 Detailed Description

CreateMatrix (p. 7) class.

Author

JuneYeob Lee(24629603)

•

Date

4/5/2019 \Contact:Leej @cwu.edu \Created on: 3/28/2019

3.2.2 Constructor & Destructor Documentation

3.2.2.1 CreateMatrix()

A constructor.

Parameters

int	a the first argument(rows)
int	b the second argument(colums)

3.2.3 Member Function Documentation

3.2.3.1 add()

```
void optimazation.pkg1.CreateMatrix.add (  \mbox{double } \mbox{\it min,} \\ \mbox{double } \mbox{\it max,} \\ \mbox{String } \mbox{\it a} \mbox{\it ) throws FileNotFoundException, UnsupportedEncodingException}
```

A add method !this method will fill out input with random numbers(this method will create 7 files which

3.2.3.2 create()

this method will create input 2d arrays with all 0.0

A create method

Parameters

int	length for first parameter(length)!
int	size for second parameter(size)

The documentation for this class was generated from the following file:

· CreateMatrix.java

3.3 optimazation.pkg1.Functioning Class Reference

Functioning (p. 8) class.

Public Member Functions

- double [][] funct (int length, int size) throws FileNotFoundException, UnsupportedEncodingException
- void **bestVector** (int functionnumber, int solutioncolum, int size) throws FileNotFoundException

3.3.1 Detailed Description

Functioning (p. 8) class.

Author

JuneYeob Lee(24629603) \This Functioning (p. 8) class has made to implemente all 18 functions by ranges.

·

Date

4/5/2019 Contact:Leej @cwu.edu Created on: 3/28/2019

3.3.2 Member Function Documentation

3.3.2.1 bestVector()

```
void optimazation.pkgl.Functioning.bestVector ( int\ functionnumber, int\ solutioncolum, int\ size\ )\ throws\ FileNotFoundException
```

/* BestVector method is for finding the best vector of the best solution. for the function number search different input file because each function has different range

Parameters

functionnumber	(number of function number $0{\sim}17$
solutioncolum	(colum number of result 2d array)
size	(size of input matrix)

Exceptions

```
FileNotFoundException
```

3.3.2.2 funct()

```
double [][] optimazation.pkg1.Functioning.funct (  \qquad \text{int } length, \\  \qquad \text{int } size \text{ ) throws FileNotFoundException, UnsupportedEncodingException}
```

CreateMatrix (p. 7) object has created

Functions (p. 10) object has created

result 2d arrays

The documentation for this class was generated from the following file:

· Functioning.java

3.4 optimazation.pkg1.Functions Class Reference

Public Member Functions

- void Schwefel (double[][] a)
- void **DeJong** (double[][] a)
- void Rosenbrock (double[][] a)
- void Rastrigin (double[][] a)
- void Griewangk (double[][] a)
- void SineEnvelope (double[][] a)
- void StretchedV (double[][] a)
- void Ackley1 (double[][] a)
- void Ackely2 (double[][] a)
- void EggHolder (double[][] a)
- void Rana (double[][] a)
- void Pathological (double[][] a)
- void Michalewicz (double[][] a)
- void Masters (double[][] a)
- void Quartic (double[][] a)
- void Levy (double[][] a)
- void Step (double[][] a)
- void Alpine (double[][] a)

3.4.1 Detailed Description

Author

JuneYeob Lee(24629603) Functions (p. 10) class is composed with 18 functions

Date

4/5/2019 Contact:Leej @cwu.edu Created on: 3/28/2019

3.4.2 Member Function Documentation

3.4.2.1 Ackely2()

```
void optimazation.pkgl.Functions.Ackely2 ( double a[\ ][\ ] )
```

Ackley Two function Range[-32,32] expected global minimum = 0

Parameters

a (input matrix)

3.4.2.2 Ackley1()

Ackley One Function

• Range[-32,32] expected global minimum = -7.54276-2.91867(n-3)

Parameters

a (input matrix)

3.4.2.3 Alpine()

```
void optimazation.pkg1.Functions.Alpine ( double a[][] )
```

Alpine function Range[-100,100] expected global minimum = 0

Parameters

a (input matrix)

3.4.2.4 DeJong()

```
void optimazation.pkg1.Functions.DeJong ( double a[][] )
```

DeJong 1 function Range [-100,100] expected minimum =0

Parameters

a (input matrix)

3.4.2.5 EggHolder()

```
void optimazation.pkg1.Functions.EggHolder ( \label{eq:condition} \mbox{double a[][] } \mbox{)}
```

EggHolder Range[-500,500] expected global minimum none

Parameters

```
a (input matrix)
```

3.4.2.6 Griewangk()

```
void optimazation.pkgl.Functions.Griewangk ( double a[\ ][\ ] )
```

Griewangk function Range[-500,500] expected global minimum =0

Parameters

```
a (input matrix)
```

3.4.2.7 Levy()

```
void optimazation.pkg1.Functions.Levy ( \label{eq:condition} \mbox{double $a[\ensuremath{\mbox{\scriptsize d}}[\ensuremath{\mbox{\scriptsize d}}]$}\ )
```

Levy function Range[-10,10] expected global minimum = 0

Parameters

```
a (input matrix)
```

3.4.2.8 Masters()

```
void optimazation.pkgl.Functions.Masters ( double a[\ ][\ ] )
```

Masters'Cosine Wave function Range[-30,30] expected global minimum = 1-n when n is size of input matrix

Parameters

a (input matrix)

3.4.2.9 Michalewicz()

```
void optimazation.pkgl.Functions.Michalewicz ( double a[\ ][\ ] )
```

Michalewicz function Range[0,Pi] expected global minimum = 0.996n when n is size of input matrix

Parameters

a (input matrix)

3.4.2.10 Pathological()

```
void optimazation.pkg1.Functions.Pathological ( double a[][] )
```

Pathological function Range[-100,100] expected global minimum = none

Parameters

a (input matrix)

3.4.2.11 Quartic()

```
void optimazation.pkgl.Functions.Quartic ( \label{eq:condition} \mbox{double $a[\ ][\ ]$ )}
```

Quartic function Range[-100,100] expected global minimum = 0

Parameters

a (input matrix)

3.4.2.12 Rana()

```
void optimazation.pkgl.Functions.Rana ( double a[][] )
```

Rana function Range[-500,500] expected global minimum =none

Parameters

```
a (input matrix)
```

3.4.2.13 Rastrigin()

```
void optimazation.pkgl.Functions.Rastrigin ( double a[\ ][\ ] )
```

Rastrigin function Range[-30,30] expectedglobal minimum =0

Parameters

```
a (input matrix)
```

3.4.2.14 Rosenbrock()

```
void optimazation.pkg1.Functions.Rosenbrock ( \label{eq:continuous} \mbox{double } a[\ ][\ ] \ )
```

Rosenbrock's Saddle function Range[-100,100] expected global minimum =0

Parameters

```
a (input matrix)
```

3.4.2.15 Schwefel()

```
void optimazation.pkg1.Functions.Schwefel ( \label{eq:condition} \mbox{double $a[\ ][\ ]$ )}
```

Schwefel method input range[-512,512] expect global minimum = 0

Parameters

a (input matrix)

3.4.2.16 SineEnvelope()

```
void optimazation.pkg1.Functions.SineEnvelope ( double a[\ ][\ ] )
```

Sine Envelope Sine Wave Range[-30,30] expected global minimum =-1.4915(n-1) when n is size of input matrix

Parameters

a (input matrix)

3.4.2.17 Step()

```
void optimazation.pkg1.Functions.Step ( double a[][] )
```

Step function Range[-100,100] expected global minimum = 0

Parameters

a (input matrix)

3.4.2.18 StretchedV()

```
void optimazation.pkg1.Functions.StretchedV ( double a[\ ][\ ] )
```

StretchedV Range[-30,30] expected global minimum = 0

Parameters

a (input matrix)

The documentation for this class was generated from the following file:

Functions.java

3.5 optimazation.pkg1.lterativeLocalSearch Class Reference

Public Member Functions

• double [][] IterativeLocalSearch (LocalSearch I, int itr, int length, int size, Functioning f) throws File

NotFoundException, UnsupportedEncodingException, IOException

3.5.1 Detailed Description

Author

JuneYeob Lee(24629603) IterativLocalSearch is that find best solution of local search with iteration. This class should deal with FileNot FoundException, IOException and Unsupported Encoding Exception

3.5.2 Constructor & Destructor Documentation

3.5.2.1 IterativeLocalSearch()

IterativeLocal search method to find best solution of the x times iterated local search

Parameters

1	(Local search object)
itr	(number of iteration
length	(number of input rows)
size	(number of input colums)
f	(functioning object)

Returns

Best solution for Local Search

Exceptions

FileNotFoundException	
UnsupportedEncodingException	
IOException	

The documentation for this class was generated from the following file:

• IterativeLocalSearch.java

3.6 optimazation.pkg1.LocalSearch Class Reference

Public Member Functions

double [][] LocalSearch (int length, int size, Functioning f) throws FileNotFoundException, Unsupported
 —
 EncodingException, IOException

3.6.1 Detailed Description

Author

JuneYeob Lee Local Search Algorithm class This class should deal with FileNot FoundException, IOException and Unsupported Encoding Exception

3.6.2 Constructor & Destructor Documentation

3.6.2.1 LocalSearch()

This method is made for local search algorithm. First set the initial solutions for 18 functions but it's not best because it's picked randomly this method will find the local minimum solution or global minimum.(in the neighbor area.) it will iterate until the standing point is smaller that left or right.

Parameters

length	(number of input rows)	
size	(number of input colums)	
f	(functioning object)	

Returns

Best solution for Local Search

Exceptions

FileNotFoundException

Exceptions

UnsupportedEncodingException	
IOException	

The documentation for this class was generated from the following file:

· LocalSearch.java

3.7 optimazation.pkg1.Main Class Reference

Optimization1 class.

Static Public Member Functions

 static void main (String[] args) throws FileNotFoundException, IOException main method

3.7.1 Detailed Description

Optimization1 class.

3.7.2 Member Function Documentation

3.7.2.1 main()

```
static void optimazation.pkgl.Main.main ( String~[]~args~)~throws~FileNotFoundException,~IOException~[static]
```

main method

Parameters

args	the command line arguments

Exceptions

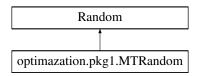
java.io.FileNotFoundException	
java.io.UnsupportedEncodingException	

The documentation for this class was generated from the following file:

Main.java

3.8 optimazation.pkg1.MTRandom Class Reference

Inheritance diagram for optimazation.pkg1.MTRandom:



Public Member Functions

- · MTRandom ()
- MTRandom (boolean compatible)
- MTRandom (long seed)
- MTRandom (byte[] buf)
- MTRandom (int[] buf)
- final synchronized void setSeed (long seed)
- final void setSeed (byte[] buf)
- final synchronized void setSeed (int[] buf)

Static Public Member Functions

• static int [] pack (byte[] buf)

Protected Member Functions

• final synchronized int next (int bits)

3.8.1 Detailed Description

Version

1.0

Author

David Beaumont, Copyright 2005

A Java implementation of the MT19937 (Mersenne Twister) pseudo random number generator algorithm based upon the original C code by Makoto Matsumoto and Takuji Nishimura (see http://www.math.sci.co hiroshima-u.ac.jp/ \sim m-mat/MT/emt.html for more information.

As a subclass of java.util.Random this class provides a single canonical method **next()** (p. 21) for generating bits in the pseudo random number sequence. Anyone using this class should invoke the public inherited methods (next—Int(), nextFloat etc.) to obtain values as normal. This class should provide a drop-in replacement for the standard implementation of java.util.Random with the additional advantage of having a far longer period and the ability to use a far larger seed value.

This is **not** a cryptographically strong source of randomness and should **not** be used for cryptographic systems or in any other situation where true random numbers are required.

This software is licensed under the CC-GNU LGPL.

3.8.2 Constructor & Destructor Documentation

```
3.8.2.1 MTRandom() [1/5]

optimazation.pkg1.MTRandom.MTRandom ( )
```

The default constructor for an instance of **MTRandom** (p. 19). This invokes the no-argument constructor for java.

util.Random which will result in the class being initialised with a seed value obtained by calling System.current

TimeMillis().

```
3.8.2.2 MTRandom() [2/5]

optimazation.pkg1.MTRandom.MTRandom (
boolean compatible)
```

This version of the constructor can be used to implement identical behaviour to the original C code version of this algorithm including exactly replicating the case where the seed value had not been set prior to calling genrand_int32.

If the compatibility flag is set to true, then the algorithm will be seeded with the same default value as was used in the original C code. Furthermore the setSeed() method, which must take a 64 bit long value, will be limited to using only the lower 32 bits of the seed to facilitate seamless migration of existing C code into Java where identical behaviour is required.

Whilst useful for ensuring backwards compatibility, it is advised that this feature not be used unless specifically required, due to the reduction in strength of the seed value.

Parameters

```
compatible Compatibility flag for replicating original behaviour.
```

This version of the constructor simply initialises the class with the given 64 bit seed value. For a better random number sequence this seed value should contain as much entropy as possible.

Parameters

cood	The seed value with which to initialise this class.
SEEU	i i i i ci occu valuc willi willch lu lillialioc ii lo ciass.

3.8.2.4 MTRandom() [4/5]

```
optimazation.pkg1.MTRandom.MTRandom ( \label{eq:byte} \mbox{byte [] } buf \mbox{)}
```

This version of the constructor initialises the class with the given byte array. All the data will be used to initialise this instance.

Parameters

buf	The non-empty byte array of seed information.
-----	---

Exceptions

NullPointerException	if the buffer is null.
IllegalArgumentException	if the buffer has zero length.

3.8.2.5 MTRandom() [5/5]

```
optimazation.pkg1.MTRandom.MTRandom (  \quad \text{int [] } \textit{buf } )
```

This version of the constructor initialises the class with the given integer array. All the data will be used to initialise this instance.

Parameters

buf	The non-empty integer array of seed information.
-----	--

Exceptions

NullPointerException	if the buffer is null.
IllegalArgumentException	if the buffer has zero length.

3.8.3 Member Function Documentation

3.8.3.1 next()

This method forms the basis for generating a pseudo random number sequence from this class. If given a value of 32, this method behaves identically to the genrand_int32 function in the original C code and ensures that using the standard nextInt() function (inherited from Random) we are able to replicate behaviour exactly.

Note that where the number of bits requested is not equal to 32 then bits will simply be masked out from the top of the returned integer value. That is to say that:

```
mt.setSeed(12345);
int foo = mt.nextInt(16) + (mt.nextInt(16) << 16);</pre>
```

will not give the same result as

```
mt.setSeed(12345);
int foo = mt.nextInt(32);
```

Parameters

bits The number of significant bits desired in the output.

Returns

The next value in the pseudo random sequence with the specified number of bits in the lower part of the integer.

3.8.3.2 pack()

This simply utility method can be used in cases where a byte array of seed data is to be used to repeatedly re-seed the random number sequence. By packing the byte array into an integer array first, using this method, and then invoking setSeed() with that; it removes the need to re-pack the byte array each time setSeed() is called.

If the length of the byte array is not a multiple of 4 then it is implicitly padded with zeros as necessary. For example:

```
byte[] { 0x01, 0x02, 0x03, 0x04, 0x05, 0x06 }
```

becomes

```
int[] { 0x04030201, 0x00000605 }
```

Note that this method will not complain if the given byte array is empty and will produce an empty integer array, but the setSeed() method will throw an exception if the empty integer array is passed to it.

Parameters

buf The non-null byte array to be packed.

Returns

A non-null integer array of the packed bytes.

Exceptions

This method resets the state of this instance using the 64 bits of seed data provided. Note that if the same seed data is passed to two different instances of **MTRandom** (p. 19) (both of which share the same compatibility state) then the sequence of numbers generated by both instances will be identical.

If this instance was initialised in 'compatibility' mode then this method will only use the lower 32 bits of any seed value passed in and will match the behaviour of the original C code exactly with respect to state initialisation.

Parameters

seed The 64 bit value used to initialise the random number generator state.

This method resets the state of this instance using the byte array of seed data provided. Note that calling this method is equivalent to calling "setSeed(pack(buf))" and in particular will result in a new integer array being generated during the call. If you wish to retain this seed data to allow the pseudo random sequence to be restarted then it would be more efficient to use the "pack()" method to convert it into an integer array first and then use that to re-seed the instance. The behaviour of the class will be the same in both cases but it will be more efficient.

Parameters

buf	The non-empty byte array of seed information.
-----	---

Exceptions

NullPointerException	if the buffer is null.
IllegalArgumentException	if the buffer has zero length.

```
3.8.3.5 setSeed() [3/3]
final synchronized void optimazation.pkgl.MTRandom.setSeed (
```

```
This method resets the state of this instance using the integer array of seed data provided. This is the canonical
```

Parameters

buf	The non-empty integer array of seed information.
-----	--

way of resetting the pseudo random number sequence.

int [] *buf*)

Exceptions

NullPointerException	if the buffer is null.
IllegalArgumentException	if the buffer has zero length.

The documentation for this class was generated from the following file:

· MTRandom.java

3.9 optimazation.pkg1.RandomWalk Class Reference

Public Member Functions

• double [][] randomWalk (int itr, int length, int size, Functioning f) throws FileNotFoundException, UnsupportedEncodingException, IOException

3.9.1 Detailed Description

Author

June Yeob Lee **RandomWalk** (p. 24) calss which generated the best fitness for 18 solutions. randomly pick the solution, iterate 30 times for 18 functions.

3.9.2 Member Function Documentation

3.9.2.1 randomWalk()

This method is used for blind search. minumum iterate 30 times each time it generate random integer from Mersenne Twister.

Parameters

itr	iteration time.	
length	numbers of input vectors(at least 30).	
size	size of input it should be 10 or 20 or 30.	
f	functioning object which has funct method to get the result of 18 functions.	

Returns

This method return the bestfitness for 18 functions at least 30 times iterations.

Exceptions

FileNotFoundException	
UnsupportedEncodingException	
IOException	

The documentation for this class was generated from the following file:

• RandomWalk.java

Index

Ackely2	next
optimazation.pkg1.Functions, 10	optimazation.pkg1.MTRandom, 21
Ackley1	
optimazation.pkg1.Functions, 11	optimazation.pkg1.CreateCSV, 5
add	CreateCsv, 5
optimazation.pkg1.CreateMatrix, 8	CreateCsv0, 6
Alpine	CreateCsv1, 6
optimazation.pkg1.Functions, 11	optimazation.pkg1.CreateMatrix, 7
optimazation.phg in anotions, i i	add, 8
bestVector	create, 8
optimazation.pkg1.Functioning, 9	CreateMatrix, 7
optimazationiphy in anothermity, e	optimazation.pkg1.Functioning, 8
create	bestVector, 9
optimazation.pkg1.CreateMatrix, 8	
CreateCsv	funct, 9
optimazation.pkg1.CreateCSV, 5	optimazation.pkg1.Functions, 10
CreateCsv0	Ackely2, 10
optimazation.pkg1.CreateCSV, 6	Ackley1, 11
CreateCsv1	Alpine, 11
	DeJong, 11
optimazation.pkg1.CreateCSV, 6	EggHolder, 11
CreateMatrix	Griewangk, 12
optimazation.pkg1.CreateMatrix, 7	Levy, 12
Dalama	Masters, 12
DeJong	Michalewicz, 13
optimazation.pkg1.Functions, 11	Pathological, 13
EggHoldor	Quartic, 13
EggHolder	Rana, 13
optimazation.pkg1.Functions, 11	Rastrigin, 14
funct	Rosenbrock, 14
funct	Schwefel, 14
optimazation.pkg1.Functioning, 9	SineEnvelope, 15
Griewangk	Step, 15
	StretchedV, 15
optimazation.pkg1.Functions, 12	optimazation.pkg1.lterativeLocalSearch, 16
IterativeLocalSearch	IterativeLocalSearch, 16
optimazation.pkg1.lterativeLocalSearch, 16	optimazation.pkg1.LocalSearch, 17
optimazation.pkg1.iterativeLocalGearch, 10	LocalSearch, 17
Levy	optimazation.pkg1.Main, 18
optimazation.pkg1.Functions, 12	main, 18
LocalSearch	optimazation.pkg1.MTRandom, 19
optimazation.pkg1.LocalSearch, 17	MTRandom, 20, 21
optimazation.pkg1.LocalSearch, 17	
main	next, 21
optimazation.pkg1.Main, 18	pack, 22
Masters	setSeed, 23
	optimazation.pkg1.RandomWalk, 24
optimazation.pkg1.Functions, 12	randomWalk, 24
Michalewicz	manle.
optimazation.pkg1.Functions, 13	pack
MTRandom	optimazation.pkg1.MTRandom, 22
optimazation.pkg1.MTRandom, 20, 21	Pathological

28 INDEX

optimazation.pkg1.Functions, 13

Quartic

optimazation.pkg1.Functions, 13

Rana

optimazation.pkg1.Functions, 13

randomWalk

optimazation.pkg1.RandomWalk, 24

Rastrigin

optimazation.pkg1.Functions, 14

Rosenbrock

optimazation.pkg1.Functions, 14

Schwefel

optimazation.pkg1.Functions, 14

setSeed

optimazation.pkg1.MTRandom, 23

SineEnvelope

optimazation.pkg1.Functions, 15

Step

optimazation.pkg1.Functions, 15

StretchedV

optimazation.pkg1.Functions, 15