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[For internal reference only.]

November 26, 2014

Abstract

Put abstract here.

Keywords.

0 Outline

1 Introduction

Main idea: [1]

Sections 2.1 and 2.2 describe algoirhtm environments. Section 2.3 describes tables. Section 2.4 describes figures.

2 LaTeX Examples

2.1 Algorithm Type 1

See Algorithm 1 for an example. Reference:

- http://en.wikibooks.org/wiki/LaTeX/Algorithms_and_Pseudocode
- http://developer.berlios.de/docman/display_doc.php?docid=800&group_id=3442

2.2 Algorithm Type 2

Algorithm 1 *Surrogate-Assisted Search (SAS)*

- | |
|---|
| <ol style="list-style-type: none">(1) <i>Initialization: Choose initial experiment points and evaluate the corresponding function values.</i>(2) <i>Repeat until the effective points are found.</i><ol style="list-style-type: none">(2.1) <i>Update the surrogate surface.</i>(2.2) <i>Determine next possible experiment points</i>(2.3) <i>Perform function evaluations.</i> |
|---|

Algorithm 1 Calculate $y = x^n$

Require: $n \geq 0 \vee x \neq 0$

Ensure: $y = x^n$

```

1:  $y \leftarrow 1$ 
2: if  $n < 0$  then
3:    $X \leftarrow 1/x$ 
4:    $N \leftarrow -n$ 
5: else
6:    $X \leftarrow x$ 
7:    $N \leftarrow n$ 
8: end if
9: while  $N \neq 0$  do
10:  if  $N$  is even then
11:     $X \leftarrow X \times X$ 
12:     $N \leftarrow N/2$ 
13:  else  $\{N \text{ is odd}\}$ 
14:     $y \leftarrow y \times X$ 
15:     $N \leftarrow N - 1$ 
16:  end if
17: end while

```

2.3 Table

	PSO			Reference
	Function	x_i domain	Optimum	
Type 1	f_1	$[3, 13]$	$1.21598D$	$[2]$
	f_2			
	f_3			
Type 2	f_4			
	f_5			
	f_6			

Table 1: Benchmark functions.

2.4 Figures

References

- [1] Put authors here. title. *Journal of XYZ*, 2000.



Figure to be inserted here.

Figure 1: Put caption here.

- [2] K. Krishnakumar, S. Narayanaswamy, and S. Garg. Solving large parameter optimization problems using a genetic algorithm with stochastic coding. In G. Winter, J. Periaux, M. Galan, and P. Cuesta, editors, *Genetic Algorithms in Engineering and Computer Science*. John Wiley & Sons, Inc. New York, NY, USA, 1996.



Figure to be inserted here.

Figure 2: Put caption here.

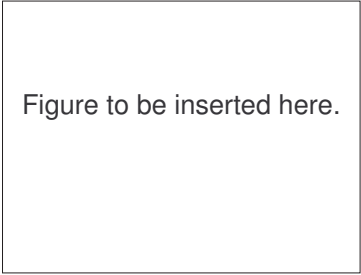


Figure to be inserted here.

(a) aaa

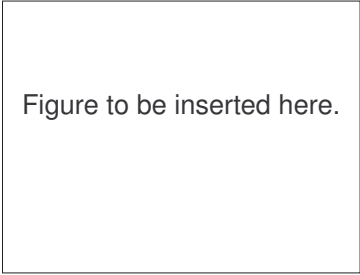


Figure to be inserted here.

(b) bbb

Figure 3: Put caption here.

PSO				
	Function	x_i domain	Optimum	Reference
Type 1	f_1	[3, 13]	1.21598 <i>D</i>	[2]
	f_2			
	f_3			
Type 2	f_4			
	f_5			
	f_6			

Table 2: Benchmark functions.