

Contents

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import os import numpy as np import sys import re
sys.path.insert(0, './code')
from Timer import Timer from Aux import execute
if len(sys.argv) < 2: print("Error: Needs an instance as argument")
sys.exit()
instance = sys.argv[1] ninstance = instance.replace('.dat', '').split('/')[
1] instance_size = int(re.findall('+', ninstance)[0]) execution_type = "t " +
str(instance_size * instance_size * 0.0000001) sols_dir = "./results/paper/" + nin
stance num_executions = 30 server = len(sys.argv) > 2 code = "./code/main.py"
print("Executing GADEGD with different population sizes...") ps =
[8, 16, 32, 64, 128] timer = Timer() timer.start() for size in ps: sol_dir_suffix
= "GADEGD/original/ps="+str(size) suffix = sol_dir_suffix.replace("/", "_")
sol_dir = os.path.join(sols_dir, sol_dir_suffix) parameters = " ".join(["python",
code, instance, "gadegd", execution_type, "-ps", str(size), "-c PR -aux"])
execute(parameters, sol_dir, suffix, num_executions, server, True) if not server:
print("Elapsed time in seconds:", timer.getTime())
print("Executing MADEGD with different population sizes...") ps =
[8, 16, 32, 64, 128] timer = Timer() timer.start() for size in ps: sol_dir_suffix
= "MADEGD/original/ps="+str(size) suffix = sol_dir_suffix.replace("/", "_")
sol_dir = os.path.join(sols_dir, sol_dir_suffix) parameters = " ".join(["python",
code, instance, "gadegd", execution_type, "-ps", str(size), "-c PR -aux", "-
lsga Best -ls 2optb -itpls 1"]) execute(parameters, sol_dir, suffix, num_executions,
server, True) if not server: print("Elapsed time in seconds:", timer.getTime())
```