Relatorio Bioinspirados II

1 Colônia de Formigas

Top 30 - ACO

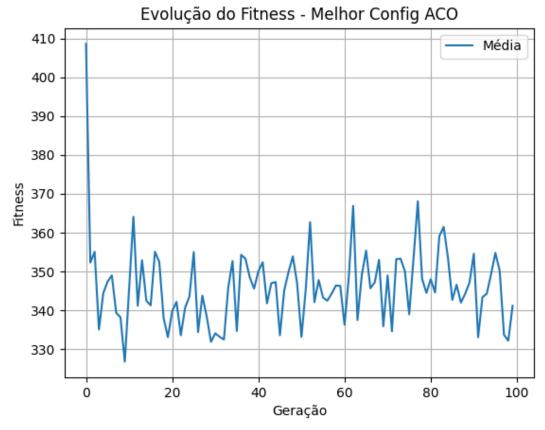
alpha	beta	rho	Melhor	Média	Desvio
0.5	2.0	0.1	291.0	291.4	1.20000000000000000
0.5	2.0	0.3	291.0	291.4	1.20000000000000000
0.5	2.0	0.5	291.0	291.0	0.0
0.5	5.0	0.1	291.0	291.0	0.0
0.5	5.0	0.3	291.0	291.0	0.0
0.5	5.0	0.5	291.0	291.0	0.0
1.0	1.0	0.1	291.0	291.0	0.0
1.0	1.0	0.3	291.0	291.0	0.0
1.0	1.0	0.5	291.0	291.0	0.0
1.0	2.0	0.1	291.0	291.0	0.0
1.0	2.0	0.3	291.0	291.0	0.0
1.0	2.0	0.5	291.0	291.0	0.0
1.0	5.0	0.1	291.0	291.0	0.0
1.0	5.0	0.3	291.0	291.0	0.0
1.0	5.0	0.5	291.0	291.0	0.0
2.0	1.0	0.1	291.0	307.0	10.392304845413264
2.0	1.0	0.3	291.0	306.3	15.375630068390693
2.0	1.0	0.5	291.0	307.8	17.71327186038762
2.0	2.0	0.1	291.0	292.6	4.8
2.0	2.0	0.3	291.0	293.4	4.079215610874227
2.0	2.0	0.5	291.0	291.8	1.6
2.0	5.0	0.1	291.0	291.4	1.20000000000000000
2.0	5.0	0.3	291.0	291.4	1.2
2.0	5.0	0.5	291.0	291.0	0.0
0.5	1.0	0.3	307.0	338.6	14.192955999368138
0.5	1.0	0.5	327.0	339.2	9.378699270154684
0.5	1.0	0.1	329.0	343.4	11.655041827466771

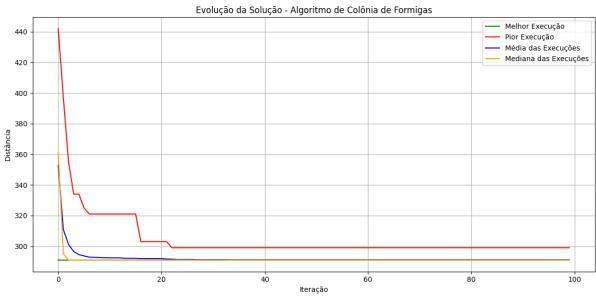
As execuções foram todas executadas 10 vezes e com 100 iterações. Os melhores parâmetros foram:

 $\bullet \ \, \text{alpha:} \,\, 0.5$

 \bullet beta: 2.0

 \bullet rho: 0.1





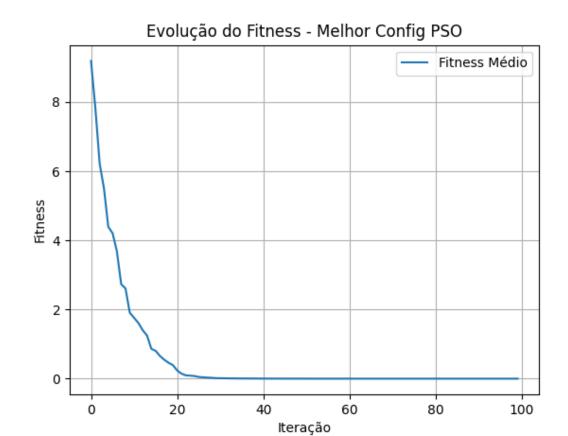
2 PSO

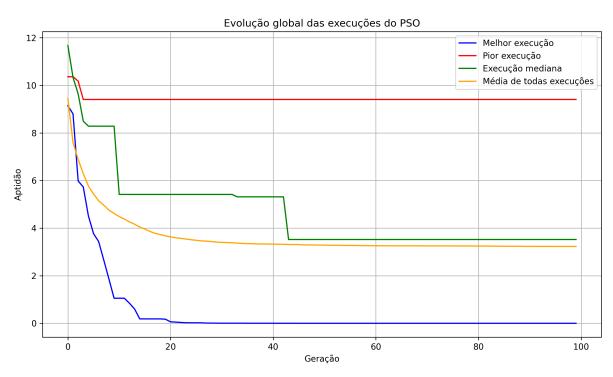
Top 30 - PSO (Ackley)

w	c1	c2	Melhor	Média	Desvio
0.5	1.0	1.0	9.528844380213286e-10	5.324932406125527e-09	7.787898844828035e-09
0.5	0.5	1.0	1.5294117083897163e-09	8.23164301166912e-09	6.86352354840126e-09
0.5	2.0	1.0	2.186758552014112e-08	5.7492376814849425e-08	3.342612774202095e-08
0.5	1.0	2.0	4.1932196426230917e-07	1.2444551047430252e-06	5.126825455583515e-07
0.5	0.5	2.0	4.77510817109561e-07	1.2156247174210932e-06	5.840976327867835e-07
0.5	1.0	0.5	7.669956549882784e-07	0.005430814015685304	0.006310027387111308
0.5	2.0	0.5	1.7498003583860111e-06	0.002122308162507469	0.002489930253062777
0.5	0.5	0.5	5.8814871167545135e-05	0.010271276770123895	0.018690531354504786
0.5	2.0	2.0	0.00012269908140938313	0.00036797371215557817	0.0002143653010657265
1.0	1.0	0.5	0.5401674317420206	1.8946502954801976	0.8763839637057937
1.0	2.0	2.0	1.0129586138898259	3.6247234269832136	1.0079206660727598
1.0	0.5	0.5	1.2154483334529798	2.461008782713022	0.5259983173127074
1.0	2.0	0.5	1.8089540338924377	2.665039861561269	0.5210467291736954
1.0	2.0	1.0	2.001624746283721	3.2190475062149844	0.5382129562671428
1.0	0.5	1.0	2.142467241108719	3.1498101363937687	0.4511948460482006
1.0	1.0	1.0	2.2110953309219146	2.8923891982329177	0.5403091984880215
1.0	0.5	2.0	2.261389885645514	3.576209586569516	0.7641506126798225
1.0	1.0	2.0	2.782941324751708	4.004547958672321	0.7549061488488108
1.5	2.0	2.0	2.8796378814648134	6.288278215955823	1.944557037288779
1.5	0.5	1.0	3.940669301776851	7.18510108567353	1.6206062310846234
1.5	0.5	2.0	3.98883337691677	6.589827888351377	1.1434063950946531
1.5	1.0	2.0	4.23248704454225	7.116051366088419	1.2623324393778148
1.5	2.0	1.0	4.491394638432336	6.40409065711624	1.284853104281783
1.5	2.0	0.5	4.56097682053467	5.625656637636583	0.5497850392010695
1.5	1.0	0.5	4.813442592117173	5.73362869957077	0.7194279293248078
1.5	0.5	0.5	5.100282272058987	6.409444030975368	0.9505507319544642
1.5	1.0	1.0	5.238344537365521	6.08442384604398	0.4886506521052227

As execuções foram todas executadas 10 vezes com 100 iterações e o tamanho do enxame 30. Os melhores parâmetros foram:

- w: 0.5
- c1: 1.0
- c2: 1.0





3 CLONALG

Top 30 Configurações - CLONALG

n	d	beta	Melhor	Média	Desvio
10.0	2.0	1.0	291.0	292.6	4.8
10.0	2.0	3.0	291.0	297.8	11.6
10.0	2.0	5.0	291.0	306.4	16.347476869535555
10.0	5.0	1.0	291.0	305.9	17.57526671205874
10.0	5.0	3.0	291.0	299.8	14.647866738880444
10.0	5.0	5.0	291.0	295.6	9.718024490605073
10.0	8.0	1.0	291.0	308.3	14.940214188558343
10.0	8.0	3.0	291.0	300.2	12.106196760337244
10.0	8.0	5.0	291.0	300.6	14.745846872933408
15.0	2.0	1.0	291.0	295.6	9.718024490605073
15.0	2.0	3.0	291.0	306.6	19.386593305684215
15.0	2.0	5.0	291.0	295.6	9.718024490605073
15.0	5.0	1.0	291.0	308.2	14.176036117335482
15.0	5.0	3.0	291.0	300.4	15.596153371905524
15.0	5.0	5.0	291.0	308.6	16.56019323558756
15.0	8.0	5.0	291.0	302.8	10.524257693538296
20.0	2.0	1.0	291.0	298.0	9.767292357659825
20.0	2.0	3.0	291.0	301.3	17.58436805802244
20.0	2.0	5.0	291.0	295.6	9.718024490605073
20.0	5.0	3.0	291.0	319.3	16.74544714243248
20.0	8.0	5.0	291.0	316.6	16.42071862008481
15.0	8.0	3.0	295.0	314.2	8.997777503361595
15.0	8.0	1.0	299.0	325.9	17.86309043810729
20.0	5.0	5.0	299.0	316.5	8.452810183601665
20.0	8.0	3.0	307.0	325.2	8.328265125462805
20.0	5.0	1.0	319.0	342.5	17.089470442351338
20.0	8.0	1.0	325.0	350.8	14.140721339450826

As execuções foram todas executadas 10 vezes e com 100 gerações e N=20. Os melhores parâmetros foram:

• n: 10

• d: 2

 \bullet beta: 1

