## Practica 4. Optimización por Enjambre de Particulas.

Algoritmos Bioinspirados

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- 1. Introducción
- 2. Estadisticas Descriptivas

Conf	Estadíst.	Funciones de prueba	
Conf	Estadist.	Ackley	Rosenbrock
1	min	18.515644131362567	498.35182704181545
	max	21.95	1,084
	promedio	21.090003122849488	4553.570892237594
	des. est.		
2	min	9.517998536467005	16.59913616876128
_	max	22.02	1,093
	promedio	9.517998536467003	16.59913616876128
	des. est.	0.01.000000010.000	10.00013010010120
3	min	4.976418408338478	10.667890800223562
•	max	22.09	1,095
	promedio	4.9764184083384775	10.667890800223566
	des. est.		
4	min	18.515644131362567	498.35182704181545
-	max	21.94	1,088
	promedio	21.090003122849488	4553.570892237594
	des. est.	21.000000122010100	1333.010002231301
5	min	9.517998536467005	16.59913616876128
9	max	21.85	1,088
	promedio	9.517998536467003	16.59913616876128
	des. est.	3.0110000000000000000000000000000000000	10.00010010010120
6	min	4.976418408338478	10.667890800223562
9	max	21.87	1,095
	promedio	4.9764184083384775	10.667890800223566
	des. est.	4.5704104000004170	10.007030000223300
7	min	18.515644131362567	498.35182704181545
'	max	21.86	1,088
	promedio	21.090003122849488	4553.570892237594
	des. est.	21.030000122043400	1000.010032201034
8	min	9.517998536467005	16.59913616876128
O	max	21.96	1,085
	promedio	9.517998536467003	16.59913616876128
	des. est.	3.311330330101003	10.00010010010120
9	min	4.976418408338478	10.667890800223562
3	max	21.83	1,095
	promedio	4.9764184083384775	10.667890800223566
	des. est.	1.5701101000001170	10.00100000220000
10	min	0.1668246681319836	498.35182704181545
10	max	22.09	1,085
	promedio	0.1668246681319836	4553.570892237594
	des. est.	5.1000210001010000	1000.010002201004
11	min	2.031481808228964	9.861834458823816
	max	22.05	1,085
	promedio	2.031481808228964	9.86183445882382
	des. est.	2.001101000220001	5.55155115552552
12	min	0.1668246681319836	8.778958901717523
	max	21.93	7,915
	promedio	0.1668246681319836	8.77895890171752
	des. est.	5.1000210001010000	5555555111152
13	min	18.515644131362567	498.35182704181545
10	max	21.93	1,084
	promedio	21.090003122849488	4553.570892237594
	des. est.	_1.000000122010100	1000.010002201034
14	min	2.031481808228964	9.861834458823816
17	max	22.0	1,081
	promedio	2.031481808228964	9.86183445882382
	des. est.	2.001701000220304	J.00100 <del>11</del> 0002002
15	min	0.16682466 <b>8</b> 1319836	8.778958901717523
10	max	21.96	7,915
	max	41.00	1,010