A few results. For more explanation, see ReadMe.txt and the source code

SPSO 2007

		KISS, seed=1294404794	1794		
		100 runs			
		automatic swarm size S	ırm size S	Swarm size = 40	ize = 40
Function	Dim. Comment	S	% Mean best	%	Mean best
4 Tripod	2	12 5	56 5.03E-01	63	3.10E-01
11 Network	42 Partly binary	22	0 1.35E+02	0	1.06E+02
15 Step	10 Biased	16 99	9 1.00E-02	က	4.53E+00
17 Lennard-Jones	186 atoms	18	4 4.26E-01	က	6.40E-01
18 Gear train	4 Discrete	41	9 1.55E-09	16	2.47E-10
20 Perm	5 Discrete	14	6 5.10E+02	46	2.92E+02
21 Compression spring	3 Partly discrete	13 31	1 3.96E-02	72	1.91E-03
100 Sphere	30 Shifted	20 100	0 9.39E-07	100	9.00E-07
102 Rosenbrock	10 Shifted	16 68	8 5.75E+00	တ	1.81E+00
103 Rastrigin	30 Shifted	20	0 5.39E+01	0	3.89E+01
104 Schwefel	10 Shifted	16 100	0 9.09E-05	100	8.57E-05
105 Griewank	10 Shifted	16	5 5.26E-02	18	3.05E-02
106 Ackley	30 Shifted	20 3	0 1.12E+00	86	1.87E-02
	Total	518	8 7.07E+02	528	4.44E+02

				SPSO 2011, swarm size 40	warm size 40			
			Uniforn	Uniform radius, BW=(0,0,0,0), Confinement	3,0,0,0), Confi	inement		
	KISS, seed=1294404794	94404794	Š	Mersenne, seed=1294404794	1294404794		Mersenne, seed=1234567890	234567890
	100 runs		100 runs	100	1000 runs		100 runs	
4 Tripod	79	1.46E-01	72	1.54E-01	75 1	1.39E-01	74	1.45E-01
11 Network	0	1.09E+02	0	1.12E+02	0 1-	1.11E+02	0	1.10E+02
15 Step	66	1.00E-02	66	1.00E-02	99	1.10E-02	86	2.00E-02
17 Lennard-Jones	0	9.18E-01	0	9.93E-01	6 0	9.34E-01	0	8.42E-01
18 Gear train	28	1.90E-11	46	2.61E-11	49 2	2.57E-11	64	3.19E-11
20 Perm	36	3.09E+02	29	3.43E+02	33 3.	3.03E+02	32	3.38E+02
21 Compression spring	81	3.26E-03	79	3.55E-03	77 3	3.25E-03	78	4.51E-03
100 Sphere	100	0.00E+00	100	0.00E+00	100 0.	0.00E+00	100	0.00E+00
102 Rosenbrock	20	5.77E+01	46	5.95E+01	45 6.	6.62E+01	4	6.02E+01
103 Rastrigin	_	5.39E+00	0	5.26E+00	0 5.	5.23E+00	0	5.24E+00
104 Schwefel	100	0.00E+00	100	0.00E+00	100 0.	0.00E+00	100	0.00E+00
105 Griewank	တ	2.15E-02	21	1.65E-02	12 2	2.07E-02	15	2.13E-02
106 Ackley	100	0.00E+00	100	0.00E+00	100 1	1.16E-03	100	0.00E+00
	713	4.82E+02	692	5.21E+02	690 4.	4.86E+02	202	5.15E+02

100 runs is not always enough for a good estimation of the success rate (and of the mean best).

The result may depend on the RNG. Actually, even for a given RNG, it may depend on the seed..