

Table 1: Resultados comparativos do Algoritmo Genético (Heurística 3) e da Otimização por Colônia de Formigas (ACO) com 5 formigas e 10 iterações aplicados ao conjunto representativo.

Graph Name	$V(G)$	$E(G)$	δ	Δ	Lower Bound	Upper Bound	Fitness Value (GA)	Fitness Value (ACO)	Elapsed Time GA (seconds)	Elapsed Time ACO (seconds)
can62	62	78	1	6	35	108	82	79	0.203671	0.024872
can256	256	1330	3	82	12	384	86	92	0.968238	0.180914
cycle17	17	17	2	2	-1	25	26	24	0.052095	0.003993
hns511	511	1425	0	12	157	904	603	553	2.115730	8.145430
cycle16	16	16	2	2	-1	24	24	23	0.050534	0.003231
cycle13	13	13	2	2	-1	19	20	19	0.041113	0.002575
can445	445	1682	3	12	136	667	320	259	1.965270	0.689598
can187	187	652	4	9	74	280	154	88	0.655985	0.042479
can715	715	2975	1	104	27	1251	388	331	3.744880	1.892810
can292	292	1124	3	34	33	438	158	146	1.142180	0.227869
cycle18	18	18	2	2	-1	27	27	24	0.057765	0.003963
cycle15	15	15	2	2	-1	22	23	20	0.051879	0.003098
can96	96	336	5	8	42	144	80	48	0.329733	0.017151
cycle20	20	20	2	2	-1	30	31	28	0.062693	0.004674
cycle11	11	11	2	2	-1	16	17	16	0.035617	0.002424
can24	24	68	3	8	10	36	20	16	0.079800	0.003363
sherman4	1104	1341	0	6	630	2493	2403	2187	5.581570	265.952000
can268	268	1407	3	36	28	402	95	130	1.038250	0.200303
can73	73	152	2	8	32	109	83	63	0.242563	0.013908
685bus	685	1282	1	12	210	1198	746	737	3.490030	8.393500
can161	161	608	5	16	37	241	121	76	0.575387	0.042658
cycle12	12	12	2	2	-1	18	18	16	0.040963	0.002445
cycle19	19	19	2	2	-1	28	29	27	0.057502	0.004153
662bus	662	906	1	9	264	1158	809	814	3.183240	8.177140
can61	61	248	4	24	9	91	31	39	0.205510	0.012430
can144	144	576	5	14	38	216	52	74	0.507257	0.041348
can229	229	774	2	12	70	343	172	156	0.819620	0.118194
cycle10	10	10	2	2	-1	15	15	14	0.029954	0.001981
can838	838	4586	5	31	104	1257	417	481	5.200660	10.871800
cycle14	14	14	2	2	-1	21	21	20	0.046465	0.003073
shl200	663	1720	2	439	6	994	492	658	3.212180	4.840810