

Table 1: Resultados comparativos do Algoritmo Genético (Heurística 2) 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	92	78	0.458479	0.058791
can256	256	1330	3	82	12	384	159	82	2.315280	0.634285
cycle17	17	17	2	2	-1	25	26	24	0.116487	0.008290
hns511	511	1425	0	12	157	904	635	545	4.856870	34.269800
cycle16	16	16	2	2	-1	24	23	23	0.116544	0.007578
cycle13	13	13	2	2	-1	19	19	19	0.092013	0.005999
can445	445	1682	3	12	136	667	320	275	4.344870	1.956520
can187	187	652	4	9	74	280	133	88	1.524620	0.111837
can715	715	2975	1	104	27	1251	535	317	8.652420	6.006460
can292	292	1124	3	34	33	438	229	147	2.513960	0.577142
cycle18	18	18	2	2	-1	27	26	24	0.129880	0.008640
cycle15	15	15	2	2	-1	22	23	20	0.117053	0.007010
can96	96	336	5	8	42	144	72	48	0.750039	0.042823
cycle20	20	20	2	2	-1	30	30	28	0.142095	0.010004
cycle11	11	11	2	2	-1	16	16	16	0.079260	0.005014
can24	24	68	3	8	10	36	19	16	0.180176	0.009844
sherman4	1104	1341	0	6	630	2493	2277	2180	10.859800	677.917000
can268	268	1407	3	36	28	402	182	106	2.455900	0.565407
can73	73	152	2	8	32	109	90	63	0.550325	0.031218
685bus	685	1282	1	12	210	1198	882	726	6.616080	27.173800
can161	161	608	5	16	37	241	113	76	1.313440	0.107385
cycle12	12	12	2	2	-1	18	16	16	0.092196	0.005407
cycle19	19	19	2	2	-1	28	28	27	0.129357	0.009300
662bus	662	906	1	9	264	1158	1005	817	6.117890	25.148800
can61	61	248	4	24	9	91	41	28	0.468253	0.024205
can144	144	576	5	14	38	216	92	74	1.172170	0.082716
can229	229	774	2	12	70	343	186	155	1.912180	0.419830
cycle10	10	10	2	2	-1	15	15	14	0.067325	0.004499
can838	838	4586	5	31	104	1257	590	474	13.201600	66.483000
cycle14	14	14	2	2	-1	21	20	20	0.104083	0.006387
shl200	663	1720	2	439	6	994	835	432	6.660390	15.300600