

Table 1: Resultados comparativos do Algoritmo Genético (Heurísticas misturadas) 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	86	79	0.483767	0.059186
can256	256	1330	3	82	12	384	86	82	3.048460	0.604830
cycle17	17	17	2	2	-1	25	25	24	0.119551	0.008141
hns511	511	1425	0	12	157	904	608	549	7.983540	36.244500
cycle16	16	16	2	2	-1	24	24	23	0.119125	0.007442
cycle13	13	13	2	2	-1	19	19	19	0.093566	0.005914
can445	445	1682	3	12	136	667	316	275	6.537730	2.047440
can187	187	652	4	9	74	280	137	88	1.790020	0.110593
can715	715	2975	1	104	27	1251	378	323	13.093800	5.846260
can292	292	1124	3	34	33	438	155	145	3.397950	0.665875
cycle18	18	18	2	2	-1	27	27	24	0.135540	0.008712
cycle15	15	15	2	2	-1	22	22	20	0.118384	0.007058
can96	96	336	5	8	42	144	67	48	0.814107	0.043833
cycle20	20	20	2	2	-1	30	28	28	0.146141	0.010252
cycle11	11	11	2	2	-1	16	16	16	0.080398	0.005023
can24	24	68	3	8	10	36	18	16	0.188403	0.010126
sherman4	1104	1341	0	6	630	2493	2281	2196	9.335650	289.683000
can268	268	1407	3	36	28	402	92	104	3.255300	0.513384
can73	73	152	2	8	32	109	83	64	0.594579	0.031058
685bus	685	1282	1	12	210	1198	726	728	12.834600	27.749700
can161	161	608	5	16	37	241	103	76	1.644640	0.123479
cycle12	12	12	2	2	-1	18	18	16	0.093373	0.005499
cycle19	19	19	2	2	-1	28	28	27	0.133441	0.009339
662 _{us}	662	906	1	9	264	1158	813	806	10.657800	25.579000
can61	61	248	4	24	9	91	31	31	0.506130	0.024632
can144	144	576	5	14	38	216	52	68	1.435380	0.082191
can229	229	774	2	12	70	343	184	159	2.370640	0.434516
cycle10	10	10	2	2	-1	15	15	14	0.068605	0.004599
can838	838	4586	5	31	104	1257	439	476	21.131000	68.620700
cycle14	14	14	2	2	-1	21	20	20	0.106416	0.006559
shl200	663	1720	2	439	6	994	494	422	5.669380	7.510650