

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	93	81	0.204467	0.025436
can256	256	1330	3	82	12	384	167	94	0.987414	0.193714
cycle17	17	17	2	2	-1	25	24	24	0.051516	0.003841
hns511	511	1425	0	12	157	904	628	552	2.214050	6.474460
cycle16	16	16	2	2	-1	24	23	23	0.051951	0.003363
cycle13	13	13	2	2	-1	19	19	19	0.040918	0.002526
can445	445	1682	3	12	136	667	326	270	1.957350	0.663686
can187	187	652	4	9	74	280	132	88	0.660212	0.043082
can715	715	2975	1	104	27	1251	509	328	3.895290	1.933740
can292	292	1124	3	34	33	438	261	147	1.116720	0.222358
cycle18	18	18	2	2	-1	27	27	24	0.057271	0.003879
cycle15	15	15	2	2	-1	22	22	20	0.051810	0.003079
can96	96	336	5	8	42	144	71	48	0.319307	0.016903
cycle20	20	20	2	2	-1	30	28	28	0.062672	0.004748
cycle11	11	11	2	2	-1	16	16	16	0.035465	0.002371
can24	24	68	3	8	10	36	20	16	0.079944	0.003498
sherman4	1104	1341	0	6	630	2493	2275	2190	5.779210	272.168000
can268	268	1407	3	36	28	402	146	124	1.071790	0.132863
can73	73	152	2	8	32	109	91	63	0.244394	0.014042
685bus	685	1282	1	12	210	1198	896	724	3.453650	7.523570
can161	161	608	5	16	37	241	112	76	0.578424	0.044112
cycle12	12	12	2	2	-1	18	16	16	0.041068	0.002531
cycle19	19	19	2	2	-1	28	28	27	0.057539	0.004063
662bus	662	906	1	9	264	1158	984	799	3.206690	7.727800
can61	61	248	4	24	9	91	40	36	0.208518	0.012051
can144	144	576	5	14	38	216	88	68	0.515279	0.038881
can229	229	774	2	12	70	343	182	155	0.836221	0.134328
cycle10	10	10	2	2	-1	15	15	14	0.029990	0.001883
can838	838	4586	5	31	104	1257	590	450	5.992370	10.886600
cycle14	14	14	2	2	-1	21	20	20	0.046565	0.003089
shl200	663	1720	2	439	6	994	813	458	3.410060	4.536500