Resultados BRKGA-MP para o problema P4 com busca local

Tabela 1: Resultados associados as instâncias ($P4$) com busca local

Instâncias	s_B^*	$t_{x_B^*}$	s^*	$gap_{s_B^*}\%$
nlkp_c_10_0	377.531	96.77	377.3323	0.05
nlkp_c_10_1	259.341	8.03	259.3415	0.00
nlkp_c_10_2	246.443	53.40	239.2120	3.02
nlkp_c_10_3	139.363	94.75	134.4287	3.67
nlkp_c_10_4	322.129	75.71	302.9225	6.34
nlkp_c_10_5	311.851	83.97	289.2950	7.80
nlkp_c_10_6	215.024	115.79	200.5727	7.21
nlkp_c_10_7	358.120	114.83	329.1188	8.81
nlkp_c_10_8	392.432	115.57	392.4323	0.00
nlkp_c_10_9	296.244	112.45	296.2470	0.00
nlkp_c_10_10	366.952	45.53	366.9886	-0.01
nlkp_c_10_11	434.222	119.52	434.2953	-0.02
nlkp_c_10_12	176.204	79.13	176.2044	0.00
nlkp_c_10_13	465.760	66.31	449.5763	3.60
nlkp_c_10_14	256.469	98.83	256.4648	0.00
nlkp_c_10_15	366.562	76.40	331.5117	10.57
nlkp_c_10_16	287.502	109.67	287.4145	0.03
nlkp_c_10_17	298.256	119.71	296.1806	0.70
nlkp_c_10_18	366.476	24.75	357.3346	2.56
nlkp_c_10_19	248.526	108.83	248.5125	0.01
nlkp_c_20_0	633.721	119.97	632.4956	0.19
nlkp_c_20_1	543.904	88.14	538.0591	1.09
nlkp_c_20_2	644.794	86.62	644.8236	0.00
nlkp_c_20_3	582.810	73.32	573.4990	1.62
nlkp_c_20_4	648.246	109.32	648.2178	0.00
nlkp_c_20_5	786.540	89.88	751.2147	4.70
nlkp_c_20_6	509.897	84.94	503.2081	1.33
nlkp_c_20_7	634.071	104.42	633.2274	0.13
nlkp_c_20_8	586.593	113.58	585.9163	0.12
nlkp_c_20_9	664.770	110.39	656.4157	1.27
nlkp_c_20_10	598.965	92.33	598.9417	0.00
nlkp_c_20_11	564.214	90.51	564.0309	0.03
nlkp_c_20_12	545.943	110.82	545.9530	0.00
nlkp_c_20_13	441.161	75.89	441.9942	-0.19
nlkp_c_20_14	520.965	115.47	510.4722	2.06
nlkp_c_20_15	531.959	110.95	532.1918	-0.04
nlkp_c_20_16	792.914	38.65	786.5707	0.81
nlkp_c_20_17	618.399	104.88	611.5531	1.12
nlkp_c_20_18	629.762	100.48	629.0685	0.11
nlkp_c_20_19	648.555	103.64	627.6682	3.33
nlkp_c_50_0	1507.120	106.09	1503.5669	0.24
nlkp_c_50_1	1453.100	116.75	1452.5048	0.04

nlkp_c_50_2	1637.630	119.62	1637.6462	0.00
nlkp_c_50_3	1793.490	119.91	1793.1656	0.02
nlkp_c_50_4	1450.220	106.27	1444.4227	0.40
nlkp_c_50_5	1309.340	119.42	1309.2653	0.01
nlkp_c_50_6	1793.280	108.18	1789.8856	0.19
nlkp_c_50_7	1452.110	98.27	1452.3508	-0.02
nlkp_c_50_8	1876.060	117.89	1872.0537	0.21
nlkp_c_50_9	1412.700	118.99	1411.3191	0.10
nlkp_c_50_10	1778.790	119.01	1771.6388	0.40
nlkp_c_50_11	1620.600	118.90	1617.2590	0.21
nlkp_c_50_12	1329.130	100.10	1329.5155	-0.03
nlkp_c_50_13	1743.550	119.85	1733.7333	0.57
nlkp_c_50_14	1513.690	102.86	1513.1239	0.04
nlkp_c_50_15	1826.780	118.74	1824.0915	0.15
nlkp_c_50_16	1721.030	104.03	1718.0575	0.17
nlkp_c_50_17	1861.530	119.41	1860.9327	0.03
nlkp_c_50_18	1611.890	118.07	1602.5287	0.58
nlkp_c_50_19	1549.940	118.73	1542.7714	0.46
nlkp_c_100_0	2947.200	111.27	2947.3399	0.00
nlkp_c_100_1	3603.570	96.76	3604.4671	-0.02
nlkp_c_100_2	2824.880	84.75	2824.8494	0.00
nlkp_c_100_3	3311.880	114.96	3313.1398	-0.04
nlkp_c_100_4	3457.730	79.63	3456.8360	0.03
nlkp_c_100_5	3031.810	112.49	3032.3964	-0.02
nlkp_c_100_6	2802.840	78.56	2804.0675	-0.04
nlkp_c_100_7	3227.760	118.92	3225.5375	0.07
nlkp_c_100_8	3609.050	119.57	3611.5407	-0.07
nlkp_c_100_9	2926.750	119.44	2928.6582	-0.07
nlkp_c_100_10	3231.440	118.99	3231.8593	-0.01
nlkp_c_100_11	3445.390	119.99	3446.9792	-0.05
nlkp_c_100_12	3452.310	106.92	3452.7032	-0.01
nlkp_c_100_13	3601.110	119.66	3602.1086	-0.03
nlkp_c_100_14	3160.300	119.80	3160.3436	0.00
nlkp_c_100_15	3300.640	112.31	3301.3761	-0.02
nlkp_c_100_16	3298.790	119.47	3299.8494	-0.03
nlkp_c_100_17	3249.850	112.30	3251.2488	-0.04
nlkp_c_100_18	3295.490	115.47	3296.3030	-0.02
nlkp_c_100_19	3463.010	119.08	3460.4434	0.07
nlkp_c_200_0	6357.320	118.42	6360.6250	-0.05
nlkp_c_200_1	5850.550	116.42	5858.3095	-0.13
nlkp_c_200_2	6860.420	115.56	6867.6431	-0.11
nlkp_c_200_3	5956.600	114.84	5960.3300	-0.06
nlkp_c_200_4	6937.780	107.50	6940.1386	-0.03
nlkp_c_200_5	6970.990	110.64	6974.7649	-0.05
nlkp_c_200_6	7129.510	116.13	7134.6813	-0.07
nlkp_c_200_7	6566.210	115.81	6567.5628	-0.02
nlkp_c_200_8	6458.570	117.64	6461.5704	-0.05

nlkp_c_200_9	6910.440	108.11	6913.1263	-0.04
nlkp_c_200_10	7149.300	117.52	7153.6815	-0.06
nlkp_c_200_11	6072.770	117.90	6077.8993	-0.08
nlkp_c_200_12	6775.610	108.91	6778.4189	-0.04
nlkp_c_200_13	6326.250	104.67	6329.5332	-0.05
nlkp_c_200_14	6824.970	112.29	6831.2717	-0.09
nlkp_c_200_15	6173.890	119.15	6178.4175	-0.07
nlkp_c_200_16	6417.600	119.51	6423.3178	-0.09
nlkp_c_200_17	7074.150	120.01	7080.5477	-0.09
nlkp_c_200_18	6472.270	119.54	6478.4059	-0.09
nlkp_c_200_19	6371.160	102.85	6375.3821	-0.07
nlkp_c_500_0	15763.200	115.73	15791.6838	-0.18
nlkp_c_500_1	16373.300	104.80	16400.7376	-0.17
nlkp_c_500_2	17835.500	116.01	17865.0765	-0.17
nlkp_c_500_3	16445.900	118.93	16449.0232	-0.02
nlkp_c_500_4	16569.800	114.53	16589.3985	-0.12
nlkp_c_500_5	16642.000	119.50	16667.2024	-0.15
nlkp_c_500_6	16056.600	117.84	16098.4080	-0.26
nlkp_c_500_7	15956.700	119.79	15986.0028	-0.18
nlkp_c_500_8	16422.300	117.88	16440.4620	-0.11
nlkp_c_500_9	17354.300	118.70	17386.1944	-0.18
nlkp_c_500_10	16338.800	93.71	16366.4899	-0.17
nlkp_c_500_11	16477.100	119.83	16501.2081	-0.15
nlkp_c_500_12	15884.300	103.05	15920.9125	-0.23
nlkp_c_500_13	16461.200	117.73	16501.8601	-0.25
nlkp_c_500_14	16361.800	84.17	16385.1143	-0.14
nlkp_c_500_15	16705.700	119.30	16722.9846	-0.10
nlkp_c_500_16	16798.900	111.45	16834.2697	-0.21
nlkp_c_500_17	15433.500	119.02	15446.5307	-0.08
nlkp_c_500_18	16656.400	119.67	16685.4413	-0.17
nlkp_c_500_19	15813.300	119.35	15839.2645	-0.16
nlkp_c_1000_0	31737.300	119.79	31877.8881	-0.44
nlkp_c_1000_1	34597.300	119.00	34801.5834	-0.59
nlkp_c_1000_2	33157.200	119.86	33291.1650	-0.40
nlkp_c_1000_3	32540.600	120.09	32747.3024	-0.63
nlkp_c_1000_4	32853.600	117.97	32993.0916	-0.42
nlkp_c_1000_5	33381.700	115.25	33494.5480	-0.34
nlkp_c_1000_6	32438.100	120.12	32583.1888	-0.45
nlkp_c_1000_7	32319.000	117.30	32458.0139	-0.43
nlkp_c_1000_8	32120.200	118.52	32322.6692	-0.63
nlkp_c_1000_9	32222.300	115.15	32391.7358	-0.52
nlkp_c_1000_10	32808.800	120.05	32989.3301	-0.55
nlkp_c_1000_11	34421.300	117.98	34620.4441	-0.58
nlkp_c_1000_12	32737.000	118.94	32868.9635	-0.40
nlkp_c_1000_13	33059.800	120.09	33174.2039	-0.34
nlkp_c_1000_14	33682.700	118.63	33878.8813	-0.58
nlkp_c_1000_15	33080.200	115.82	33190.8719	-0.33

nlkp_c_1000_16	32466.800	117.45	32626.3509	-0.49
nlkp_c_1000_17	33050.400	120.07	33201.1055	-0.45
nlkp_c_1000_18	32559.000	119.00	32696.6449	-0.42
nlkp_c_1000_19	32947.200	118.33	33108.6620	-0.49
nlkp_c_2500_0	80958.600	120.14	83052.3877	-2.52
nlkp_c_2500_1	79980.000	107.59	82346.1586	-2.87
nlkp_c_2500_2	79720.900	106.00	81881.2797	-2.64
nlkp_c_2500_3	81154.300	111.07	83277.0061	-2.55
nlkp_c_2500_4	82134.100	111.96	84164.8853	-2.41
nlkp_c_2500_5	79579.400	105.63	81553.7451	-2.42
nlkp_c_2500_6	79855.400	111.58	82275.1019	-2.94
nlkp_c_2500_7	80632.300	116.86	82528.3973	-2.30
nlkp_c_2500_8	77675.900	119.09	79905.8567	-2.79
nlkp_c_2500_9	80006.500	120.21	82238.4941	-2.71
nlkp_c_2500_10	79867.700	105.82	81889.9302	-2.47
nlkp_c_2500_11	79442.000	118.93	81740.4731	-2.81
nlkp_c_2500_12	76693.300	114.84	79078.9891	-3.02
nlkp_c_2500_13	79230.100	119.34	81458.2320	-2.74
nlkp_c_2500_14	78282.400	103.91	80494.1842	-2.75
nlkp_c_2500_15	81708.900	109.35	83680.8576	-2.36
nlkp_c_2500_16	80201.000	116.27	82296.2359	-2.55
nlkp_c_2500_17	80422.800	114.21	82809.5988	-2.88
nlkp_c_2500_18	80638.800	120.25	83192.2872	-3.07
nlkp_c_2500_19	79962.700	106.51	82099.8675	-2.60