Table 1: Average and standard deviation of the fitness value for the QAP instances Part 1. (*) Denote experiments where optimal solution was found.

UMDA dev. MIMIC avg. EBNABIC dev. CHARLON AVG. CHARLON AVG. CHARLON AVG. CHARLON AVG. CHARLON AVG.	5440119.0		ourzoc	ourzoa	'I gnu	nugis	nug20	nug21	tailOa	tailUb	tail2a	tarizo
	0.0110	3830249.0	5433062.0	3827255.0	1774.0	1973.4	2653.4	2491.6	139868.6	1203816.0	(*) 234692.8	40786350.0
	4456.6	7166.8	6315.6	7718.0	14.4	21.3	15.4	25.5	2710.3	11186.4	5736.6	793090.0
	5443712.0	3829300.0	5441955.0	3828712.0	1792.4	1983.8	2645.6	2507.8	(*) 140080.4	(*) 1197917.0	(*) 239218.6	41150980.0
	6244.8	3082.0	9758.0	7530.8	18.4	16.6	16.1	27.8	3220.8	12809.0	5400.8	1383396.0
	5442923.0	3831741.0	5429392.0	3830139.0	1765.2	1992.6	2644.0	2505.0	139791.2	(*) 1199662.0	(*) 235787.0	40789010.0
	4279.6	6153.0	2107.6	8864.6	15.4	16.5	18.0	33.6	2379.3	10699.6	3859.6	1315014.0
	5461404.0	3835015.0	5456420.0	3837589.0	1815.2	2021.8	2709.8	2540.6	140230.8	(*) 1212733.0	242512.6	41854440.0
ince dev.	11295.2	4101.0	8604.0	10186.8	13.4	21.8	22.6	29.8	3141.8	21401.0	5238.1	1676268.0
IIME avg.	5630092.0	3995678.0	5668759.0	4012064.0	1958.2	2175.6	3005.6	2975.8	154072.6	1345637.0	264944.8	51790730.0
UMDAc dev.	10558.8	6406.4	11668.6	14671.2	8.6	4.3	14.2	26.6	3648.1	11954.8	4233.1	1087818.0
avg.	5552754.0	3915722.0	5556925.0	3946258.0	1933.4	2144.0	2968.4	2821.4	153585.4	1293218.0	261749.4	47083920.0
EGNAee dev.	12118.8	13502.0	21267.0	21844.8	5.9	15.2	24.8	28.3	2169.1	39344.4	3453.1	1212888.0
avg.	5478254.2	3848287.9	5469277.1	3849678.6	1884.8	2089.2	2778.8	2673.8	145148.8	1284602.4	245950.2	44731028.2
	15760.0	6919.5	11767.7	12222.9	25.8	27.8	39.4	58.2	3096.3	28977.4	0.7769	1234036.7
avg.	5444394.3	3829565.1	5438737.2	3825467.6	1769.8	1976.0	2636.6	2515.2	(*) 135877.0	(*) 1184096.6	230244.0	(*) 39464925.0
EnboaWT dev.	3148.7	1223.5	3823.9	1387.5	5.0	12.0	15.3	13.1	594.0	605.9	3832.0	0.0
	5498612.2	3868893.9	5503753.7	3885124.1	1851.8	2076.6	2792.2	2654.8	136821.8	(*) 1207508.0	244928.6	(*) 39470511.7
Enboawo dev.	7421.8	5524.3	6515.0	5366.7	8.6	8.3	18.2	13.2	1083.0	15590.8	1964.5	7821.4
	5431911.0	3823067.9	(*) 5426795.6	(*) 3821247.5	(*) 1736.2	(*) 1939.4	(*) 2581.8	(*) 2442.2	(*) 135028.0	(*) 1183760.0	224883.6	(*) 39508471.0
MRESAWT dev.	1272.4	1658.1	1.1	28.7	4.3	4.5	10.2	1.8	995.0	0.0	841.7	78382.8
SILDS A avg.	5435473.8	3826815.2	5428066.5	3821767.0	1761.4	1956.2	2626.4	2473.0	(*) 137382.0	(*) 1190674.4	231696.2	(*) 39860785.2
Magawo dev.	1941.4	1255.8	185.1	93.4	19.0	9.4	16.1	11.2	1734.0	0.7697.0	5087.4	633376.3
avg.	5544078.0	3899491.0	5535400.0	3902476.0	1882.8	2170.4	2921.0	2759.8	148386.6	1260209.0	258501.6	44563340.0
RELAUMDA dev.	5399.6	10370.6	6760.0	6074.0	9.2	17.7	10.6	8.2	2292.4	50959.0	3521.9	1880648.0
avg.	5597654.0	3943259.0	5613617.0	3957013.0	1983.0	2248.4	2975.0	2836.8	151270.0	1291530.0	264838.0	47926830.0
NEDAMIMIC dev.	9959.2	9462.8	9341.6	6363.0	14.0	4.7	19.4	31.2	4543.2	0.0	3982.8	1345824.0
avg.	5538537.7	3899236.1	5557827.6	3920788.6	1912.6	2158.4	2893.6	2793.0	140862.4	1268656.2	254345.0	44860807.7
	12557.0	18475.9	15699.1	14569.9	27.0	34.9	33.5	51.0	2847.2	54297.6	4188.8	1020356.4

Table 2: Average and standard deviation of the fitness value for the QAP instances Part 2. (*) Denote experiments where optimal solution was found.

UMDA		tai15a	tail 5b	tai20a	tai20b	tai25a	tai25b	tai30a	tai30b	tai35a	tai35b	tai40a	tai40b
MUDA	avg.	403520.2	51949250.0	729332.8	124456300.0	1219666.0	356871100.0	1897578.0	673346700.0	2504206.0	294916600.0	3268661.0	687946100.0
	dev.	5194.1	65000.0	5061.6	429500.0	6307.2	11838540.0	9448.0	24695100.0	15558.8	9112120.0	18205.2	15358300.0
Official	avg.	404128.2	51975200.0	741628.4	128104000.0	1230873.0	354706400.0	1899613.0	706720000.0	2552689.0	300356300.0	3296989.0	699671200.0
INIT	dev.	4416.2	83020.0	0.8699	3598800.0	3939.0	3817760.0	8.6969	15578600.0	11067.0	7679100.0	10573.0	16898600.0
4 74 0	avg.	397903.0	51971170.0	737861.2	130363600.0	1223566.0	359190100.0	1889003.0	668806100.0	2516776.0	293561300.0	3261389.0	674194300.0
EBINABIC	dev.	2739.4	68910.0	5896.0	6459400.0	5486.8	9154080.0	9636.4	13489920.0	16590.8	5916220.0	13153.2	14491360.0
9 9 9	avg.	404677.8	52033070.0	756302.4	130832900.0	1245449.0	373629400.0	1937319.0	694521800.0	2604237.0	308755400.0	3383855.0	703873000.0
1	dev.	4648.6	87764.0	7683.2	4276660.0	9206.8	0.0006889	9634.8	19702400.0	20737.0	8857560.0	17147.0	17489800.0
4 9	avg.	437695.4	52952320.0	797822.2	175079100.0	1350087.0	606091100.0	2056129.0	968400300.0	2701086.0	407695400.0	3592347.0	958721300.0
OMLAC	dev.	4044.0	431460.0	14158.6	12052680.0	2526.2	15717880.0	5941.2	31402180.0	5004.4	4439600.0	6445.0	13015300.0
N. A	avg.	424760.2	52412710.0	786121.8	149579600.0	1327787.0	519133800.0	2034927.0	954900500.0	2698243.0	389334400.0	3569396.0	894976600.0
EGINAee	dev.	3937.8	97490.0	2569.8	2789600.0	6137.6	21260080.0	9367.6	54057300.0	9386.4	8895600.0	7531.2	19653360.0
1 T	avg.	421157.8	52217565.2	770363.6	129841172.4	1278422.8	374627467.9	1991013.4	711257299.2	2652326.8	320048934.0	3469006.2	750040138.1
IDEA-ICE	dev.	4196.6	56769.2	8262.1	1411251.7	12907.4	10482831.9	12713.7	20733273.4	32505.8	7972459.8	28015.0	12696619.5
4 20	avg.	397816.8	51917837.8	742448.4	124674406.3	1238977.4	348819136.0	1938729.8	644413315.0	2597492.6	290830501.3	3375198.4	664187682.6
LM_{PGGHG}	dev.	3784.8	53042.6	2860.5	310576.9	2437.4	838379.0	2759.0	907085.2	6984.7	1422691.5	7903.3	3935945.8
4 5 0	avg.	418679.2	52322201.9	790671.8	128361149.3	1305744.4	363059800.5	2035471.6	662328642.8	2735979.2	314998690.6	3551799.2	699043048.0
OM_{PGDDA}	dev.	2645.0	52861.3	3347.5	752469.1	9459.0	2643264.1	5783.9	3491232.8	7370.8	4397142.1	9198.8	5144204.6
4 5 65	avg.	(*) 389737.4	(*) 51765268.0	720817.8	(*) 122907026.3	1209663.2	(*) 344638635.2	1889633.4	641454350.4	2537712.2	286886207.3	3311038.4	649637801.9
LM_{PSSM}	dev.	1071.7	0.0	3607.0	361365.8	4098.4	167379.2	5363.0	1195968.3	6769.0	899674.4	6502.6	3116939.5
4 5 0	avg.	396383.6	(*) 51845196.3	727453.6	126765275.9	1204084.6	348033759.9	1867840.6	688624338.1	2490871.4	292150303.3	3235093.8	677273159.5
OM_{PCGUN}	dev.	3389.9	79928.3	6344.1	3381307.8	7625.1	3679273.2	7861.5	25239579.7	13865.8	8879182.8	10781.1	16728768.6
V C	avg.	426467.8	52397560.0	792780.6	158495200.0	1320585.0	529243500.0	2047528.0	776358000.0	2730241.0	358096500.0	3500793.0	868630000.0
MDAUMDA	dev.	2217.0	68432.0	4371.5	2736640.0	10017.0	4789400.0	7284.4	3588800.0	10773.2	1348100.0	33655.0	11237000.0
	avg.	434397.2	52447330.0	807033.4	156759600.0	1332874.0	568270200.0	2048995.0	808369300.0	2715446.0	390944500.0	3558663.0	886682900.0
NEDAMIMIC	dev.	2187.7	176556.0	6199.7	3435440.0	5436.0	3782720.0	7133.0	10483620.0	3192.0	4596000.0	12639.8	22098880.0
	avg.	430513.4	52416541.2	794619.6	141626895.9	1326596.4	453708027.8	2050234.0	821062418.7	2743720.6	364012879.8	3600130.6	904728560.3
CHeca	dev.	3615.2	125114.9	10078.5	6605284.7	11275.2	19382249.0	9828.8	46632268.7	19522.6	11396132.0	28482.3	12200608.0