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

EDA		$tai20\times5_0$	$tai20\times5_1$	$tai20\times5_2$	$tai20\times5_3$	$tai20\times5_4$	$tai20\times5_5$	$tai20\times10_0$	$tai20\times10_1$	$tai20\times10_2$	$tai20\times10_3$	$tai20\times10_4$	$tai20\times10_5$
UMDA	avg.	1292.8	1372.1	1123.7	1309.7	1250.6	1210.3	1621.0	1713.7	1564.1	1415.7	1468.2	1438.4
	dev.	5.9	6.5	10.4	2.1	2.7	0.5	11.2	12.6	11.7	8.7	10.8	13.4
MIMIC	avg.	1297.8	1368.1	1117.3	1319.0	1250.1	1218.1	1626.0	1715.5	1545.8	1411.0	1478.1	1434.8
	dev.	1.4	1.7	14.7	8.8	2.4	5.5	7.8	9.9	9.6	5.6	9.7	8.2
$EBNA_{BIC}$	avg.	(*) 1292.3	1378.0	1116.3	1309.5	1251.4	1210.1	1630.4	1705.0	1556.8	1420.7	1470.1	1433.8
	dev.	6.6	7.0	15.7	6.3	2.4	1.8	8.9	12.0	11.8	12.1	11.1	11.0
TREE	avg.	1299.0	1374.7	1126.2	1341.4	1258.0	1228.6	1659.9	1752.8	1571.7	1451.2	1494.3	1460.2
	dev.	3.2	6.6	13.6	16.2	9.6	12.4	12.7	7.9	10.6	15.0	10.5	9.4
$UMDA_c$	avg.	1337.8	1412.0	1259.0	1461.5	1348.0	1346.5	1816.6	1889.6	1694.8	1600.9	1659.4	1637.5
	dev.	4.2	5.4	16.0	13.8	15.6	16.6	5.0	24.8	9.4	20.3	14.0	20.6
$EGNA_{ee}$	avg.	1330.1	1400.1	1249.4	1455.0	1344.5	1333.2	1803.8	1876.7	1653.4	1601.5	1665.2	1622.0
	dev.	1.3	6.7	19.8	14.2	9.4	10.8	11.8	7.6	19.7	12.0	24.0	25.6
IDEA-ICE	avg.	1303.1	1371.2	1135.7	1355.5	1274.3	1248.2	1677.8	1760.5	1595.7	1463.9	1519.3	1476.1
	dev.	7.3	4.4	16.8	13.4	10.8	19.0	15.2	14.1	17.0	15.9	16.3	13.1
$EHBSA_{WT}$	avg.	(*) 1281.8	(*) 1359.7	(*) 1095.1	(*) 1295.5	(*) 1241.3	(*) 1195.0	1590.4	1673.6	1512.5	1382.1	1425.2	1404.7
	dev.	4.6	0.4	4.1	2.5	3.4	0.0	4.2	4.4	4.4	3.5	1.9	2.4
$EHBSA_{WO}$	avg.	1296.0	1365.7	1113.9	1316.4	1249.4	1210.1	1606.0	1710.2	1527.1	1408.2	1433.1	1418.8
	dev.	1.2	0.7	8.1	5.4	1.1	0.2	11.8	5.6	9.7	10.2	4.1	11.2
$NHBSA_{WT}$	avg.	1294.2	(*) 1362.7	(*) 1088.7	(*) 1295.8	1246.8	(*) 1201.3	1591.2	(*) 1672.5	1513.7	1385.9	1427.2	1407.2
	dev.	4.5	3.3	4.0	2.8	3.2	5.0	2.8	5.0	11.4	3.5	1.9	3.7
$NHBSA_{WO}$	avg.	1297.0	(*) 1363.2	(*) 1094.3	1308.1	1249.4	(*) 1208.5	1599.5	1678.3	1522.5	1394.4	1436.4	1415.5
	dev.	0.0	3.4	5.2	1.6	1.1	2.7	8.9	1.7	7.0	6.2	7.0	7.6
$REDA_{UMDA}$	avg.	1297.0	1375.5	1137.9	1347.0	1269.3	1233.5	1675.6	1764.5	1604.8	1476.4	1502.4	1449.8
	dev.	0.0	7.0	14.5	12.0	11.6	18.3	14.5	13.3	10.8	18.0	20.7	10.4
$REDA_{MIMIC}$	avg.	1313.6	1409.7	1233.8	1428.3	1301.9	1291.2	1706.6	1805.5	1597.2	1532.8	1664.2	1589.8
	dev.	6.7	6.4	11.2	11.9	11.1	10.4	10.7	13.5	7.6	13.4	17.4	11.6
OmeGA	avg.	1310.4	1372.7	1145.2	1369.3	1293.1	1247.3	1690.0	1763.3	1589.6	1481.1	1528.9	1487.2
	dev.	9.4	6.0	21.6	17.1	11.9	17.7	26.0	24.6	25.0	20.7	19.7	16.8
Best Known Solutions		1278.0	1359.0	1081.0	1293.0	1235.0	1195.0	1582.0	1659.0	1496.0	1377.0	1419.0	1397.0

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

EDA		$tai50\times10_0$	$tai50\times10_1$	$tai50\times10_2$	$tai50\times10_3$	$tai50\times10_4$	$tai50\times10_5$	$tai100\times20_0$	$tai100\times20_1$	$tai100\times20_2$	$tai100\times20_3$	$tai100\times20_4$	$tai100\times20_5$
UMDA	avg.	3151.6	3014.3	2979.2	3195.9	3163.6	3160.2	6907.5	6886.7	6929.0	6924.8	7010.3	6951.9
	dev.	22.5	10.4	17.0	24.1	43.8	48.4	26.7	42.2	22.0	21.6	14.7	69.5
MIMIC	avg.	3123.6	3011.0	2982.9	3142.8	3095.0	3121.8	6485.4	6441.6	6553.4	6505.9	6563.9	6648.7
	dev.	27.6	18.2	11.9	23.2	11.6	15.0	14.2	28.2	29.6	24.1	21.7	18.8
EBNA$_{BIC}$	avg.	3182.6	2999.7	2977.9	3188.3	3155.0	3194.1	6917.0	6895.8	6928.2	6946.9	6993.7	7003.3
	dev.	47.5	19.0	14.9	36.7	37.6	49.1	23.0	29.2	34.2	14.5	26.0	27.5
TREE	avg.	3233.0	3106.3	3082.9	3218.3	3211.7	3204.8	6760.7	6715.0	6780.1	6718.1	6815.7	6884.5
	dev.	20.4	31.9	24.1	24.9	29.5	13.2	45.3	45.0	37.3	30.9	28.8	34.2
UMDA$_c$	avg.	3517.1	3392.1	3397.0	3493.3	3482.0	3499.2	7400.6	7369.3	7394.3	7365.2	7394.5	7474.5
	dev.	24.1	32.9	101.8	7.3	30.0	18.4	24.2	9.4	46.2	23.8	14.4	197.3
EGNA$_{ee}$	avg.	3486.7	3392.4	3375.6	3413.9	3361.2	3447.8	7352.0	7275.2	7331.5	7225.8	7294.0	7459.2
	dev.	25.8	15.2	9.4	20.9	8.8	17.8	17.6	5.0	14.0	21.8	10.2	14.6
IDEA-ICE	avg.	3245.2	3130.4	3142.6	3283.1	3226.9	3212.8	6869.6	6896.9	6914.3	6866.0	6955.3	7024.7
	dev.	28.8	21.9	21.4	16.7	28.3	17.8	47.8	33.5	66.3	45.6	54.9	63.2
EHBSA$_{WT}$	avg.	3095.8	2967.9	2957.1	3118.4	3086.8	3087.0	6605.3	6585.6	6656.1	6618.2	6687.7	6731.3
	dev.	9.0	9.5	7.5	5.9	10.1	8.0	11.8	14.4	13.1	22.6	15.0	13.9
EHBSA$_{WO}$	avg.	3265.5	3124.2	3142.1	3283.6	3254.0	3230.5	6992.1	6989.6	7018.6	7003.5	7041.8	7085.4
	dev.	12.3	11.8	11.9	11.3	7.0	12.7	10.7	17.6	15.7	22.0	10.4	15.1
NHBSA$_{WT}$	avg.	3103.0	2978.2	2960.7	3115.7	3082.5	3093.3	6584.7	6543.9	6615.0	6575.8	6670.4	6723.0
	dev.	8.2	5.0	2.0	5.5	5.5	8.5	8.2	10.1	10.6	8.8	8.1	7.6
NHBSA$_{WO}$	avg.	3126.0	3009.8	2959.6	3113.7	3048.1	3133.0	6643.1	6575.9	6654.6	6586.7	6725.5	6771.7
	dev.	0.0	8.1	5.0	13.2	12.5	7.8	10.5	8.7	7.0	11.8	9.1	5.7
REDA$_{UMDA}$	avg.	3336.7	3194.4	3197.7	3329.5	3311.1	3329.7	7381.2	7407	7439.4	7375.6	7444.8	7510.4
	dev.	24.44	11.88	16.3	10.2	9.08	9.7	31.84	30.8	10.16	37.2	29.4	10.48
REDA$_{MIMIC}$	avg.	3378.4	3339.2	3262.5	3310.8	3329.2	3325.6	7370.6	7392.3	7365.2	7361.7	7402.6	7479.3
	dev.	18.28	12.4	10.9	7.56	34.32	17.2	19.84	17.82	27.24	34.96	25.4	10.82
OmeGA	avg.	3487.0	3440.0	3510.0	3663.6	3502.0	3494.7	7524.8	7526.5	7369.8	7376.3	7825.3	7704.0
	dev.	23.2	0.0	12.0	10.7	3.6	16.6	14.6	7.7	21.1	13.4	10.3	0.0
Best Known Solutions		2991.0	2867.0	2839.0	3063.0	2976.0	3006.0	6106.0	6183.0	6252.0	6254.0	6262.0	6302.0