Results for VRPBench instances (mTSP)

Keld Helsgaun, November 30, 2018

Instance	min *k*	Müller-Meira	LKH-3	Gap (%)	Instance	min *k*	Müller-Meira	LKH-3	Gap (%)
exp-10-5	1	15095.885629	15095.88561	0.00	ManP-5000-1	20	954191.742	**88825.269**	**-90.69**
exp-100-5	2	35236.853041	**33889.53583**	**-3.82**	ManP-5000-2	20	2271821.549	**90921.758**	**-96.00**
exp-1000-5	5	2.1147E+11	**144420.76877**	**-31.71**	RWPToy-3-0	1	6023.937832	6023.93784	0.00
exp-10000-5	42	1.87672E+12	**1209075.26821**	**-35.58**	RWPToy-3-1	1	6826.653003	6826.65299	0.00
ManP-3-0	1	3709.581	3709.581	0.00	RWPToy-3-2	1	4127.370448	4127.37045	0.00
ManP-3-1	1	2485.357	2485.357	0.00	RWPToy-5-0	1	3742.109767	3742.10978	0.00
ManP-3-2	1	3786.186	3786.186	0.00	RWPToy-5-1	1	3461.359665	3461.35967	0.00
ManP-5-0	1	4686.357	4686.357	0.00	RWPToy-5-2	1	5188.914899	5188.91491	0.00
ManP-5-1	1	2686.480	2686.480	0.00	RWPToy-10-0	1	8103.109376	8103.10938	0.00
ManP-5-2	1	4134.533	4134.533	0.00	RWPToy-10-1	1	8727.033996	8727.03400	0.00
ManP-10-0	2	6575.903	**6377.245**	**-3.02**	RWPToy-10-2	1	6082.601657	6082.60167	0.00
ManP-10-1	1	4497.191	4497.191	0.00	RWPToy-20-0	1	11229.149347	11229.14935	0.00
ManP-10-2	1	4678.544	4678.544	0.00	RWPToy-20-1	1	11253.026628	11253.02666	0.00
ManP-20-0	2	7202.261	**7054.645**	**-2.05**	RWPToy-20-2	1	9357.553819	9357.55381	0.00
ManP-20-1	2	6982.255	**6971.587**	**-0.15**	RWPToy-50-0	1	17762.849447	**17759.01540**	**-0.02**
ManP-20-2	2	8728.363	**8612.079**	**-1.33**	RWPToy-50-1	1	13197.120948	**13042.69546**	**-1.17**
ManP-50-0	3	12611.093	**11681.949**	**-7.37**	RWPToy-50-2	1	15646.200132	15646.20016	0.00
ManP-50-1	3	10813.610	**10303.755**	**-4.71**	RWPToy-100-0	1	23439.941986	**22266.44133**	**-5.01**
ManP-50-2	3	11945.041	**11199.730**	**-6.24**	RWPToy-100-1	1	21404.038732	**21068.10293**	**-1.57**
ManP-100-0	3	16962.018	**14208.238**	**-16.23**	RWPToy-100-2	1	21565.328275	**21013.07041**	**-2.56**
ManP-100-1	3	16948.889	**14306.904**	**-15.59**	RWPToy-200-0	2	33590.426863	**31570.42650**	**-6.01**
ManP-100-2	3	15728.046	**14068.775**	**-10.55**	RWPToy-200-1	2	33655.199969	**30877.82860**	**-8.25**
ManP-200-0	5	26546.522	**20783.222**	**-21.71**	RWPToy-200-2	2	32211.406237	**29532.17884**	**-8.32**
ManP-200-1	5	26249.777	**20958.657**	**-20.16**	RWPToy-500-0	3	61231.448742	**47666.59853**	**-22.15**
ManP-200-2	5	26257.130	**20775.670**	**-20.88**	RWPToy-500-1	3	62710.650345	**46056.71434**	**-26.56**
ManP-500-0	7	49087.528	**31504.372**	**-35.82**	RWPToy-500-2	3	60970.050148	**48578.11618**	**-21.82**
ManP-500-1	7	52109.723	**31377.641**	**-39.79**	RWPToy-1000-0	4	99477.299207	**64043.31963**	**-35.62**
ManP-500-2	7	48930.341	**31142.839**	**-36.35**	RWPToy-1000-1	4	94550.435967	**64104.51638**	**-32.20**
ManP-1000-0	9	87619.991	**42437.748**	**-51.57**	RWPToy-1000-2	3	89635.383711	**63829.67401**	**-28.79**
ManP-1000-1	10	79051.618	**42585.384**	**-46.13**	RWPToy-5000-1	7		130005.24401	
ManP-1000-2	9	88791.674	**43204.802**	**-51.34**	RWPToy-5000-2	7	367078.707785	**131134.22516**	**-64.29**
ManP-5000-0	10	2381307.163	**89251.131**	**-96.25**	RWPToy-5000-2	7	387841.691495	**130110.75157**	**-66.45**

Instance generator available at
https://www.ft.unicamp.br/docentes/meira/postvrp/

Müller, F. F, A., Meira, L. A. A.:
Algoritmos Genéticos Aplicado ao Problema de Roteamento de Veículos.
Report, arXiv:1808.10866 [cs.NE] (2018)