

Overview Of Results- Population Based

Problem	TLBO	Runtime(sec)	BBA	Runtime(sec)	COA	Runtime(sec)	GA	Runtime(sec)
I01-I13	3.54	1610	3.65	7530	2.74	5830	2.62	2010
MMKP01	0.267	5.6	0.0575	20	0.0173	13.1	0.0395	6.77
MMKP02	0.632	15.1	0.933	31.3	0.287	40.5	0.426	10.9
MMKP03	1.36	52.2	3.39	98.8	0.957	184	0.824	26.6
MMKP04	1.52	11.4	0.995	40.5	0.2	17.2	0.956	10.5
MMKP05	1.11	17.7	2.05	44.9	0.388	43.8	0.64	14.2
MMKP06	1.99	59.1	4.54	133	1.47	194	1.27	33.4
MMKP07	1.93	40.7	0.98	227	0.985	53.5	2.01	52.9
MMKP08	2.17	37.2	4.06	109	1.21	63	1.37	37.4
MMKP09	3.75	74.7	7.08	230	3.42	226	2.68	46.1
MMKP10	2.7	24.6	5.72	61.1	1.94	94.3	1.51	13.4
MMKP11	5.2	40.1	9.28	158	4.45	242	4.18	27.8
MMKP12	3.96	65.4	6.62	183	3.43	457	3.72	46.4
MMKP13	5.43	63.3	8.85	222	4.26	579	4.34	43.4
MMKP14	5.54	80.5	8.17	288	3.88	882	4.75	58.9
MMKP15	4.23	115	6.83	263	2.44	1910	3.54	75
MMKP16	3.68	159	6.39	284	1.89	3450	3.03	105
MMKP17	2.88	185	5.92	340	1.32	5230	2.68	135
MMKP18	2.32	220	5.38	324	1.04	7400	2.15	148
MMKP19	2.2	229	1.78	175	0	9880	1.34	89.7
MMKP20	1.05	276	3.46	243	0.112	13100	1.06	142
Average Dev:	2.74	3380	4.58	11000	1.73	49900	2.15	3130