

RESULTS OF MCE- k FOR INSTANCES TA23-TA42

Instance				Optimal Solution		Performance metrics				
Name	n	m	k	Selected Ellipses	Income	CLS size $ S_k $	Backtracking Tree		CPU Time (s)	
							# nodes	# sol. leaves	CLS-MCE	Total
TA23			1	5	14.5	830	1165	1150	0.96	0.96
TA24			2	3,5	27.4	627	2930	1150	0.95	0.95
TA25	400	5	3	3,4,5	36.8	880	26,520	3450	0.95	0.97
TA26			4	1,3,4,5	46.2	660	587,336	9200	0.95	1.48
TA27			5	1,2,3,4,5	54.2	1150	5,715,962	18,356	0.95	9.91
TA28			1	4	30.9	1396	4071	2028	2.48	2.48
TA29			2	4,5	57.8	1256	3983	1935	2.52	2.53
TA30	500	5	3	3,4,5	80.9	1678	19,478	9673	2.53	2.56
TA31			4	1,3,4,5	101.3	2028	101,334	9674	2.50	2.67
TA32			5	1,2,3,4,5	117.7	1939	2,040,107	17,428	2.56	6.11
TA33			1	2	42.5	1980	14,067	3513	4.79	4.80
TA34			2	2,4	73.5	3513	12,372	2663	4.70	4.71
TA35	600	5	3	1,2,4	101.8	1713	19,671	5325	4.80	4.82
TA36			4	1,2,4,5	126.0	2696	24,966	7960	4.71	4.73
TA37			5	1,2,3,4,5	147.4	2047	70,594	7949	4.74	4.81
TA38			1	5	63.0	4635	5557	5542	8.96	8.97
TA39			2	1,5	110.5	3243	24,102	5542	9.06	9.12
TA40	700	5	3	1,2,5	143.6	2212	19,804	5542	9.06	9.46
TA41			4	1,2,4,5	169.9	2536	341,942	44,336	9.04	14.92
TA42			5	1,2,3,4,5	195.3	5542	506,117	49,878	9.00	22.39