

Table 1 Comparison of three relaxation schemes MDP_1 , MDP_2 , and MDP_3

Dimension	Scheme	Number of feasible cases	Average time
$n = 20, l = 30, m = 60, p = 50$	MDP_1	18	17.71
	MDP_2	8	49.71
	MDP_3	5	59.52
$n = 20, l = 30, m = 100, p = 110$	MDP_1	19	80.30
	MDP_2	16	149.82
	MDP_3	12	161.81
$n = 20, l = 30, m = 160, p = 150$	MDP_1	20	409.05
	MDP_2	7	508.79
	MDP_3	12	480.77