

Table 3. PIS payoff table for L_{DM_1} problem (p=2)

	$d_2^{PIS^{\alpha-DM_{L_1}}}$	$d_2^{NIS^{\alpha-DM_{L_1}}}$	$f_{11}(X)$	$f_{12}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$d_2^{PIS^{\alpha-DM_{L_1}}}$	0.24	0.47	72.17	43.17	3.75	1.25	0	7	0	5.92
$d_2^{NIS^{\alpha-DM_{L_1}}}$	0.5	0.5	5	5	0	0	0	0	0	5

Table 4. PIS payoff table for the L_{DM_2} problem

	$f_{21}(X)$	$f_{22}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Max_{x_1, x_2} f_{21}(X)$	120	171	5	0	0	7	35	3
$Min_{x_1, x_2} f_{22}(X)$	5	10	0	0	0	0	5	0

Table 5. NIS payoff table for the L_{DM_2} problem

	$f_{21}(X)$	$f_{22}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Min_{x_1, x_2} f_{21}(X)$	5	10	0	0	0	0	5	0
$Max_{x_1, x_2} f_{22}(X)$	120	171	5	0	0	7	35	3

Table 6. PIS payoff table of L_{DM_2} problem (p=2)

	$d_2^{PIS^{L_{DM_2}}}$	$d_2^{NIS^{L_{DM_2}}}$	$f_{21}(X)$	$f_{22}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Min. d_2^{PIS^{L_{DM_2}}}$	0.2	0.312	86.322385	93.075	5	0	0.54	4.32	0	5
$Max. d_2^{NIS^{L_{DM_2}}}$	0.35	0.35	10	15	0	0	0	0	0	5

Table 7. PIS payoff table for the L_{DM_3} problem

	$f_{31}(X)$	$f_{32}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Max_{x_1, x_2} f_{31}(X)$	133	187	5	0	0	7	38	0
$Min_{x_1, x_2} f_{32}(X)$	5	10	0	0	0	0	0	5

Table 8. NIS payoff table for the L_{DM_3} problem

	$f_{31}(X)$	$f_{32}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Min_{x_1, x_2} f_{31}(X)$	5	15	0	0	0	0	5	0
$Max_{x_1, x_2} f_{32}(X)$	133	187	11	0	2.4	7	38	0

Table 9. PIS payoff table of problem L_{DM_3} (p=2)

	$d_3^{PIS^{L_{DM_3}}}$	$d_3^{NIS^{L_{DM_3}}}$	$f_{31}(X)$	$f_{32}(X)$	x_1	x_2	x_3	x_4	x_5	x_6
$Min. d_3^{PIS^{L_{DM_3}}}$	0.16	0.07	92.81	77.32	5	0	0.37852138	5.11	0	5
$Max. d_3^{NIS^{L_{DM_3}}}$	0.0599	0.286	5	10	0	0	0	0	0	5