



## Multi-item multi-objective fixed charged solid transportation problem with type-2 fuzzy variables monotonicity

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### Data:

Table 2:  $c_{ijk}^{11}$

$i/j$	1	2	3	$k$
1	(1, 2, 3; 0.6, 0.7)	(2, 3, 4; 0.5, 0.4)	(1, 2, 3; 0.5, 0.6)	1
2	(1, 2, 3; 0.5, 0.8)	(3, 4, 5; 0.7, 0.8)	(2, 4, 5; 0.4, 0.8)	
3	(1, 3, 4; 0.7, 0.4)	(2, 3, 4; 0.5, 0.5)	(3, 4, 5; 0.7, 0.6)	
1	(1, 4, 5; 0.5, 0.7)	(2, 4, 5; 0.5, 0.6)	(3, 7, 8; 0.7, 0.8)	2
2	(5, 8, 9; 0.2, 0.9)	(4, 5, 7; 0.5, 0.5)	(5, 6, 7; 0.7, 0.6)	
3	(1, 2, 3; 0.2, 0.2)	(1, 2, 3; 0.7, 0.4)	(2, 3, 4; 0.8, 0.6)	
1	(3, 5, 6; 0.3, 0.4)	(4, 5, 6; 0.1, 0.3)	(6, 7, 8; 0.5, 0.3)	4
2	(4, 5, 6; 0.8, 0.5)	(6, 7, 8; 0.2, 0.2)	(3, 5, 6; 0.8, 0.4)	
3	(6, 7, 8; 0.4, 0.4)	(5, 7, 8; 0.5, 0.5)	(8, 9, 10; 0.8, 0.9)	

Table 3:  $c_{ijk}^{12}$

$i/j$	1	2	3	$k$
1	(5, 6, 8; 0.5, 0.5)	(4, 5, 9; 0.6, 0.7)	(5, 7, 9; 0.5, 0.7)	1
2	(3, 5, 7; 0.5, 0.5)	(7, 8, 9; 0.7, 0.7)	(7, 8, 10; 1, 0.8)	
3	(6, 8, 10; 1, 0.9)	(7, 9, 11; 0.5, 0.9)	(9, 10, 12; 0.5, 1)	
1	(5, 6, 8; 0.1, 0.7)	(1, 2, 4; 0.7, 0.6)	(5, 6, 7; 0.5, 0.6)	2
2	(5, 7, 8; 0.5, 0.8)	(3, 5, 7; 0.5, 0.6)	(4, 5, 6; 0.2, 0.4)	
3	(9, 10, 11; 0.9, 1)	(7, 8, 12; 0.7, 0.9)	(7, 8, 13; 1, 0.9)	
1	(1, 2, 4; 0.5, 0.2)	(4, 5, 6; 0.5, 0.5)	(2, 3, 4; 0.7, 0.5)	4
2	(3, 4, 5; 0.5, 0.4)	(2, 4, 6; 0.8, 0.4)	(1, 3, 5; 0.5, 0.7)	
3	(7, 9, 10; 1, 0.9)	(3, 5, 7; 0.7, 0.8)	(5, 7, 9; 0.9, 1)	

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