

LIST OF FIGURES

Figure No.	Title	Page No.
1	Schematic representation of Bipolar Spherical Neutrosophic Cubic Graph	7
2.1	Schematic representation of Bipolar Spherical Fuzzy Graph	34
2.2	Bipolar spherical fuzzy graphs G_1 and G_2	36
2.3	$G_1 \oplus G_2$	37
3.1	Flow chart for proposed algorithm	55
3.2	Undirected Graph $G=(V,E)$ with 9 vertices and 18 edges	56
3.3	Score Matrix	57
3.4	The selected edge (7,8) in G	58
3.5	Score Matrix	58
3.6	The selected edge (8,9) in G	59
3.7	Score Matrix	59
3.8	The selected edge (1,4) in G	60
3.9	Score Matrix	60
3.10	The selected edge (3,5) in G	61
3.11	Score Matrix	61
3.12	The selected edge (2,6) in G	62
3.13	Score Matrix	62
3.14	The selected edge (5,7) in G	63
3.15	Score Matrix	63
3.16	The selected edge (3,4) in G	64
3.17	Score Matrix	64
3.18	The selected edge (1,2) in G	65
3.19	The final path of minimum spanning tree	65

Figure No.	Title	Page No.
4.1	The vertex set in P and the edge set in Q are represented for the graph $G^*=(V,E)$	69
4.2	The vertex set in P_1 and the edge set in Q_1 are represented for the graph $G_1=(P_1,Q_1)$	75
4.3	The vertex set in P_2 and the edge set in Q_2 are represented for the graph $G_2=(P_2,Q_2)$	75
4.4	For the two bipolar spherical neutrosophic cubic graphs $G_1^*=(V_1,E_1)$ and $G_2^*=(V_2,E_2)$ the vertex sets $V_1=(a,b)$ and $V_2=(c,d)$ and the edge sets E_1 and E_2	84
4.5	The composition of two bipolar spherical neutrosophic cubic graphs G_1 and G_2 .	85
4.6	The vertex set in P and the edge set in Q are represented for the graph $G=(P,Q)$	100
4.7	The vertex set in P and the edge set in Q are represented for the graph $G=(P,Q)$	102
5.1	Flow chart for proposed algorithm	105
5.2	Undirected Graph $G=(V,E)$ with 5 vertices and 7 edges	106
5.3	Score Matrix	107
5.4	The selected edge (3,5) in G	108
5.5	The next minimum entry 0.211 in score matrix	108
5.6	The selected edge (2,4) in G	109
5.7	The next minimum entry 0.222 in score matrix	109
5.8	The selected edge (1,3) in G	110
5.9	The next minimum entry 0.25 in score matrix	110
5.10	The selected edge (1,2) in G	111
5.11	The final path of minimum spanning tree	111
6.1	SNG	114
6.2	Vertex coloring of SNG	115

Figure No.	Title	Page No.
6.3	CSNG	118
6.4	Vertex coloring of CSNG	119
6.5	SSNG	121
6.6	Vertex coloring of SSNG	122
6.7	BSNG	126
6.8	Vertex coloring of BSNG	126
6.9	BCSNG	130
6.10	Vertex coloring of BCSNG	131
6.11	BSSNG	133
6.12	Vertex coloring of BSSNG	134
