

Figure 1 illustrates the steps of the proposed algorithm for finding a minimum spanning tree. The process starts with a graph with 10 nodes and 15 edges. The algorithm iteratively selects edges with the minimum weight, avoiding cycles and ensuring no node has a degree greater than 2. The steps are as follows:

- (a) Initial graph with 10 nodes and 15 edges.
- (b) Selection of edge (1,2) with weight 1.
- (c) Selection of edge (2,3) with weight 1.
- (d) Selection of edge (3,4) with weight 1.
- (e) Selection of edge (4,5) with weight 1.
- (f) Selection of edge (5,6) with weight 1.
- (g) Selection of edge (6,7) with weight 1.
- (h) Selection of edge (7,8) with weight 1.
- (i) Selection of edge (8,9) with weight 1.
- (j) Selection of edge (9,10) with weight 1.

The final tree consists of all selected edges, forming a path from node 1 to node 10.

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