Algorithm 1 Pseudo code of cost integration method

1: **procedure** COSTINTEGRATION($WeightedNetwork, CostRange, Repetition$)
2:     $r \leftarrow Repetition$
3:     **while** $r \neq 0$ **do**
4:         $cost \leftarrow random\ value\ from\ CostRange$
5:         $BinaryNetwork \leftarrow WeightedNetwork(cost)$
6:         $k_i^{cost} \leftarrow all\ nodes\ of\ BinaryNetwork$
7:         $e_i^{cost} \leftarrow all\ nodes\ of\ BinaryNetwork$
8:         $Eg^{cost} \leftarrow BinaryNetwork$
9:         $El^{cost} \leftarrow BinaryNetwork$
10:        $r \leftarrow r - 1$
11:    **end while**
12:    $k_i^* \leftarrow \sum k_i^{cost}$
13:    $e_i^* \leftarrow \sum e_i^{cost}$
14:    $Eg^* \leftarrow \sum Eg^{cost}$
15:    $El^* \leftarrow \sum El^{cost}$
16:    **return** k_i^*, e_i^*, Eg^*, El^*
17: **end procedure**