

Fig. 1. Proposed approach for sustainable site selection based on the coupled MIVES-Knapsack method

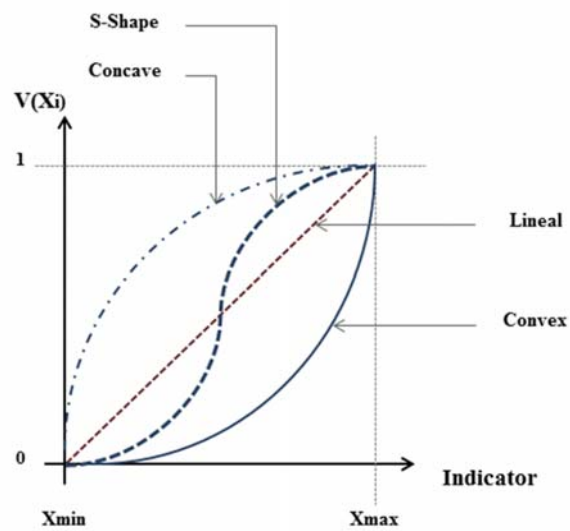


Fig. 2. Value function shapes of MIVES indicators

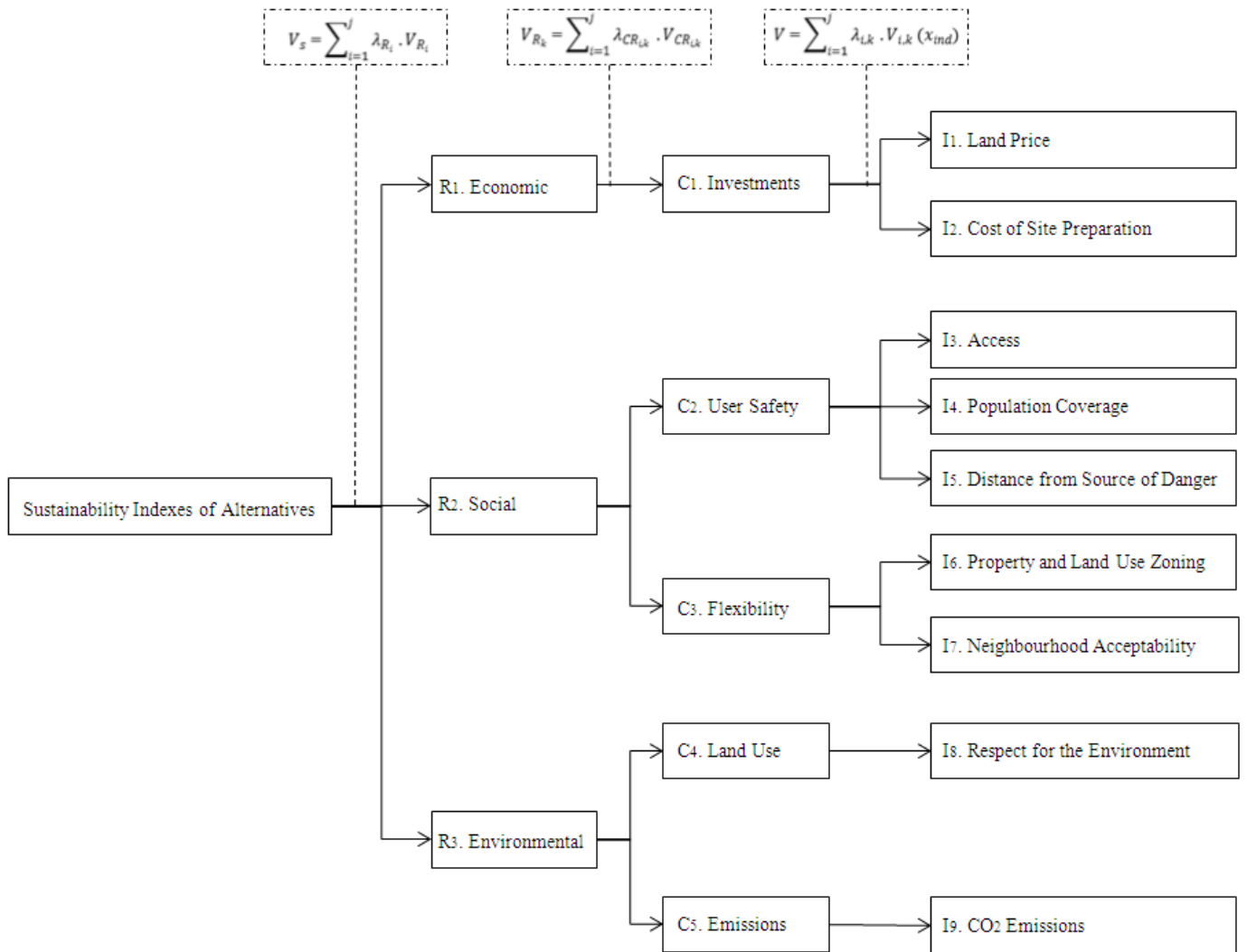


Fig. 3. Requirements tree designed for the model

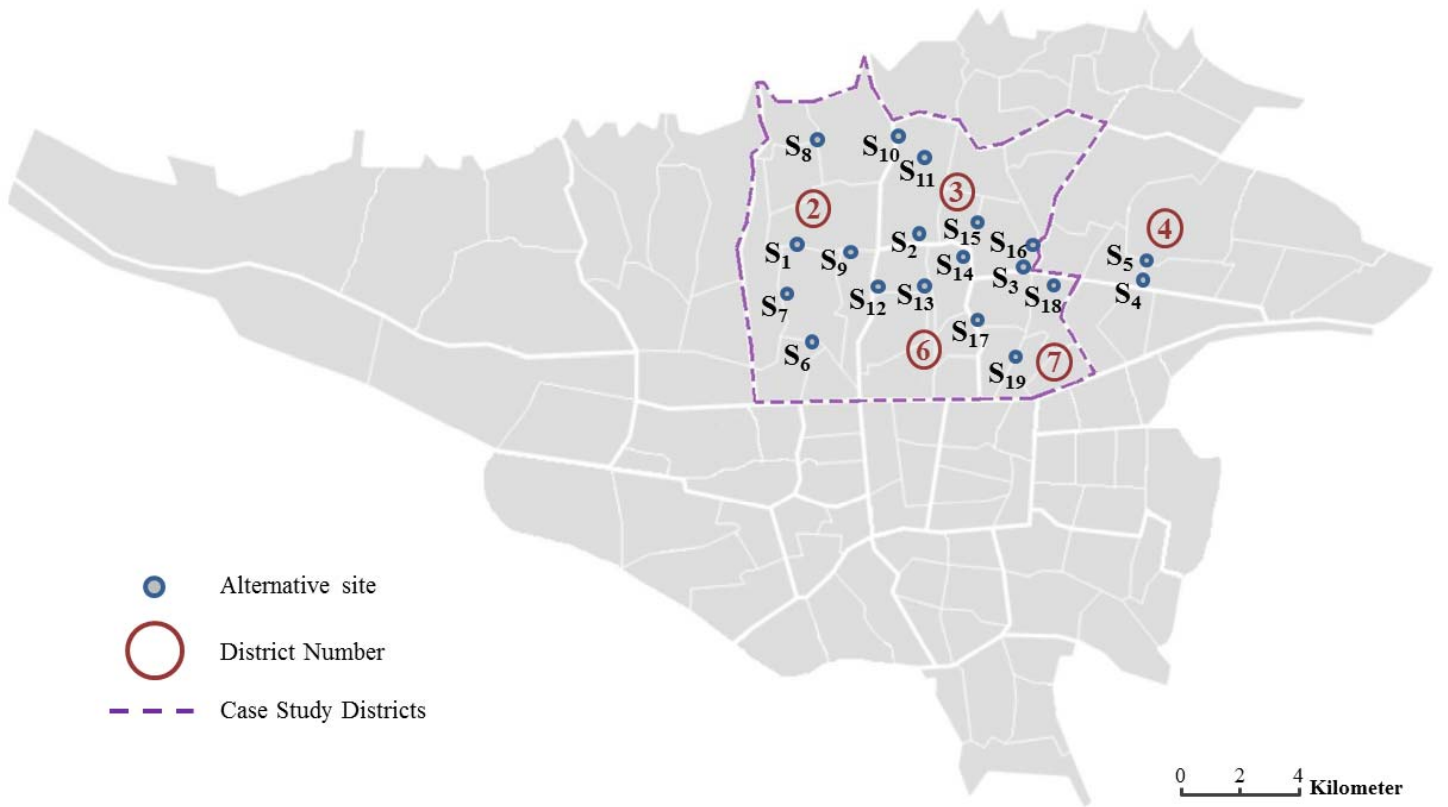


Fig. 4. Tehran map (including the case study districts and site alternatives)

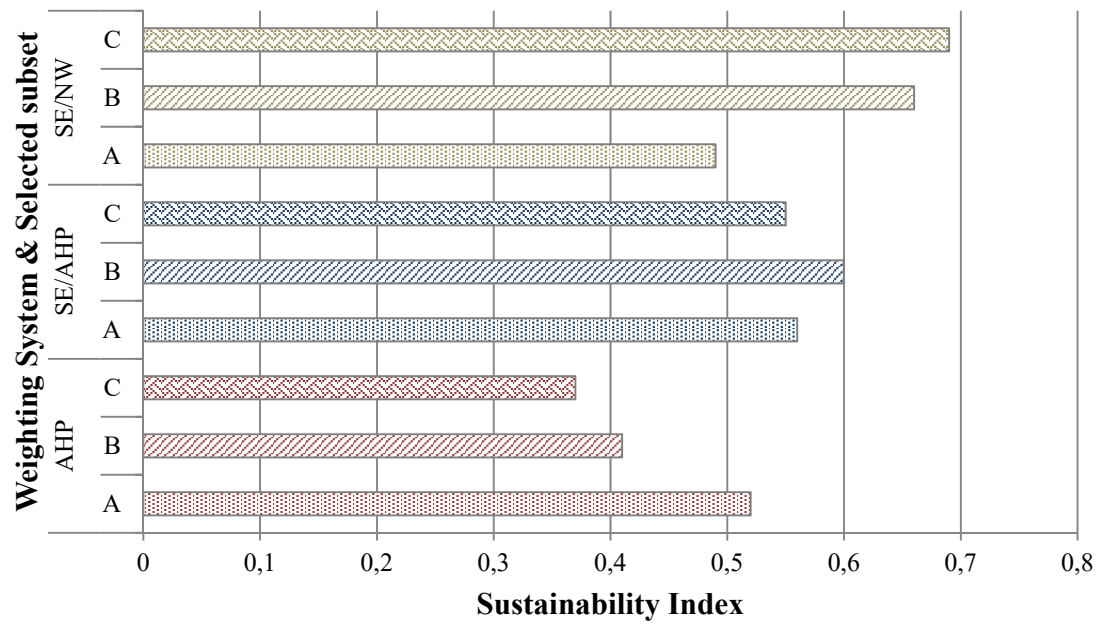


Fig. 5. SI derived from applying the different weighting techniques for the selected subsets

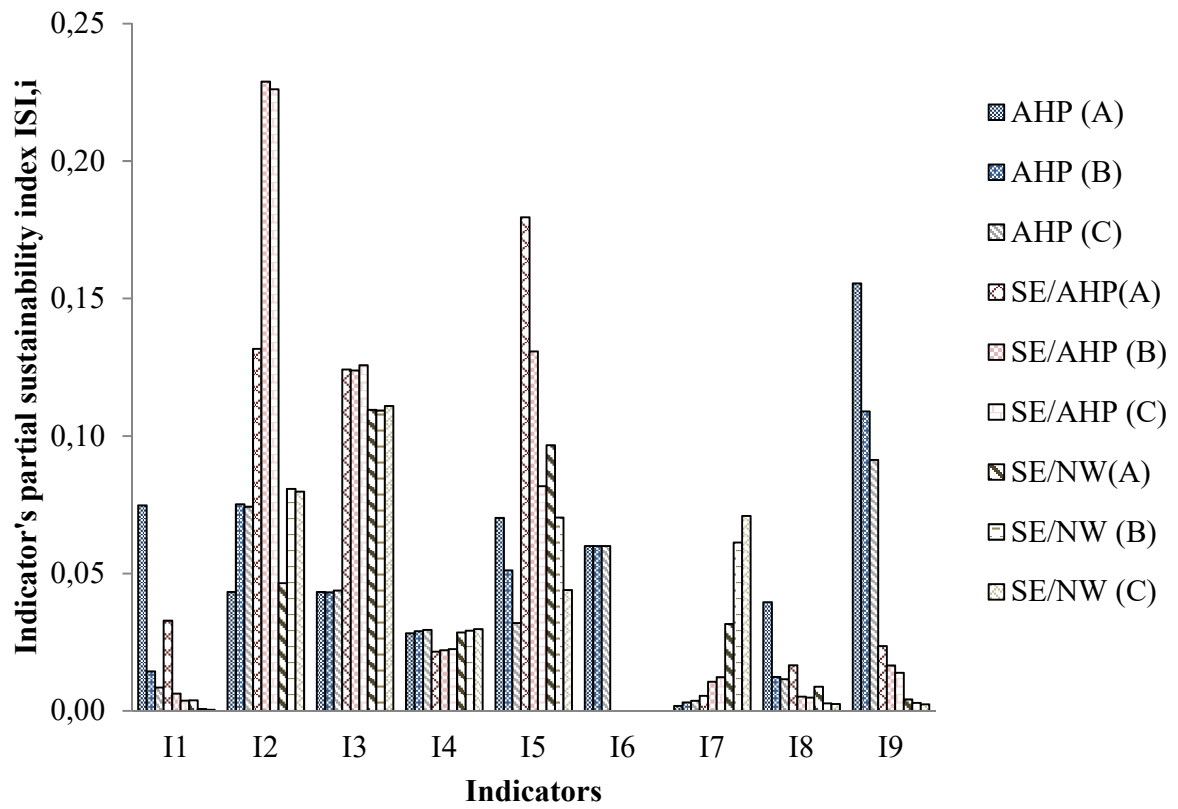


Fig. 6. Partial sustainability indexes of the indicators considering the criteria and requirement weights assigned by applying each of the three methods to the optimal subsets

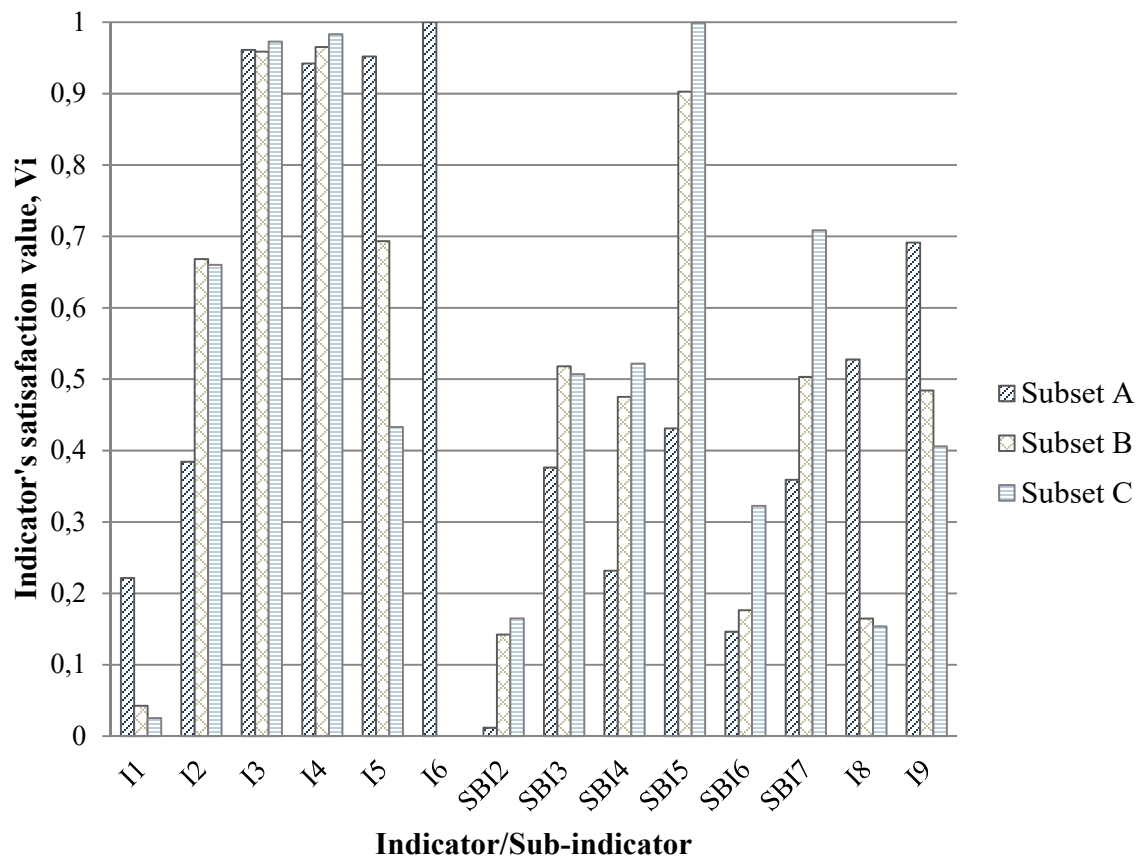


Fig. 7. Value functions of the indicators and sub-indicators without considering the weights assigned by applying each of the three methods to the optimal subsets

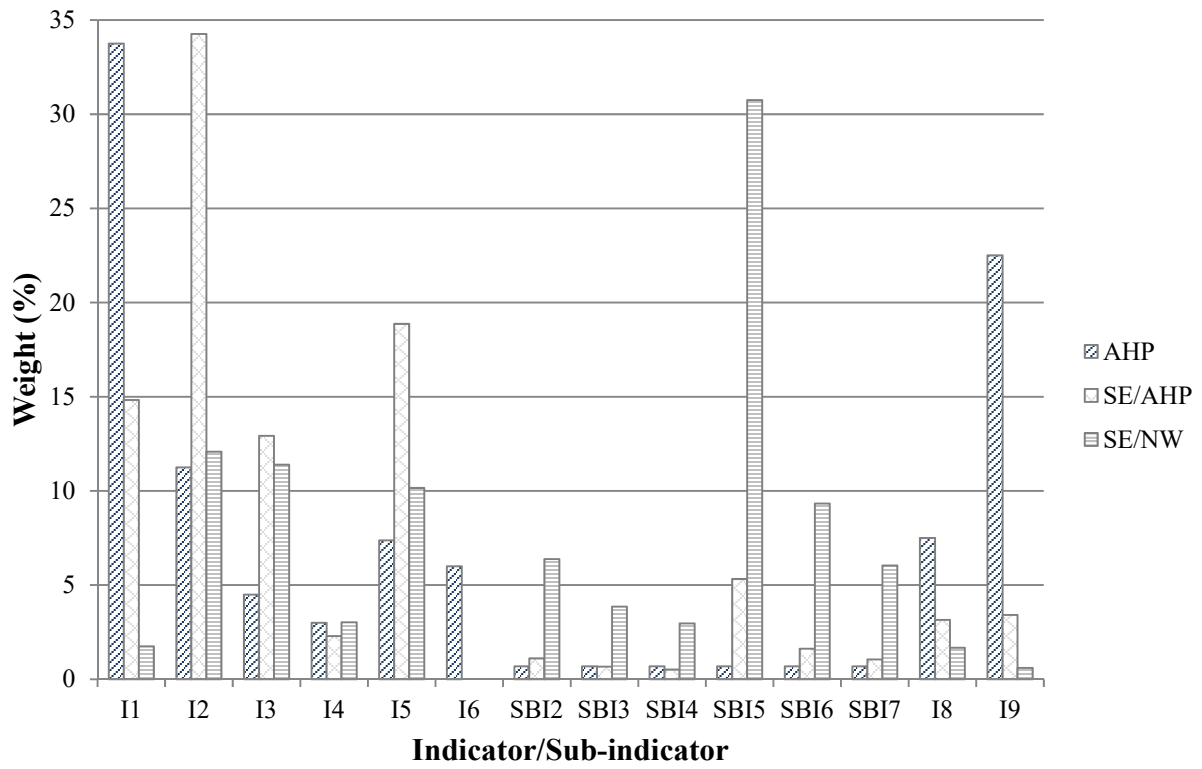


Fig. 8. Weights assigned to the indicators and sub-indicators by the three methods

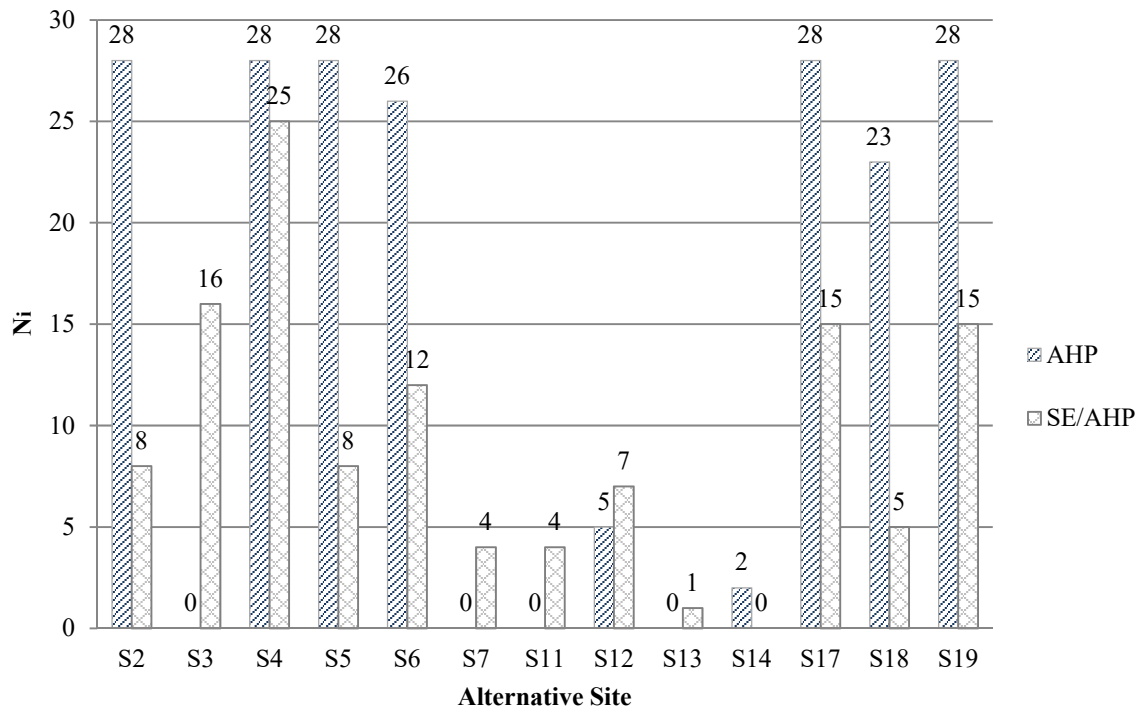


Fig. 9. Frequency of each site (N_i) depending on the weighting technique

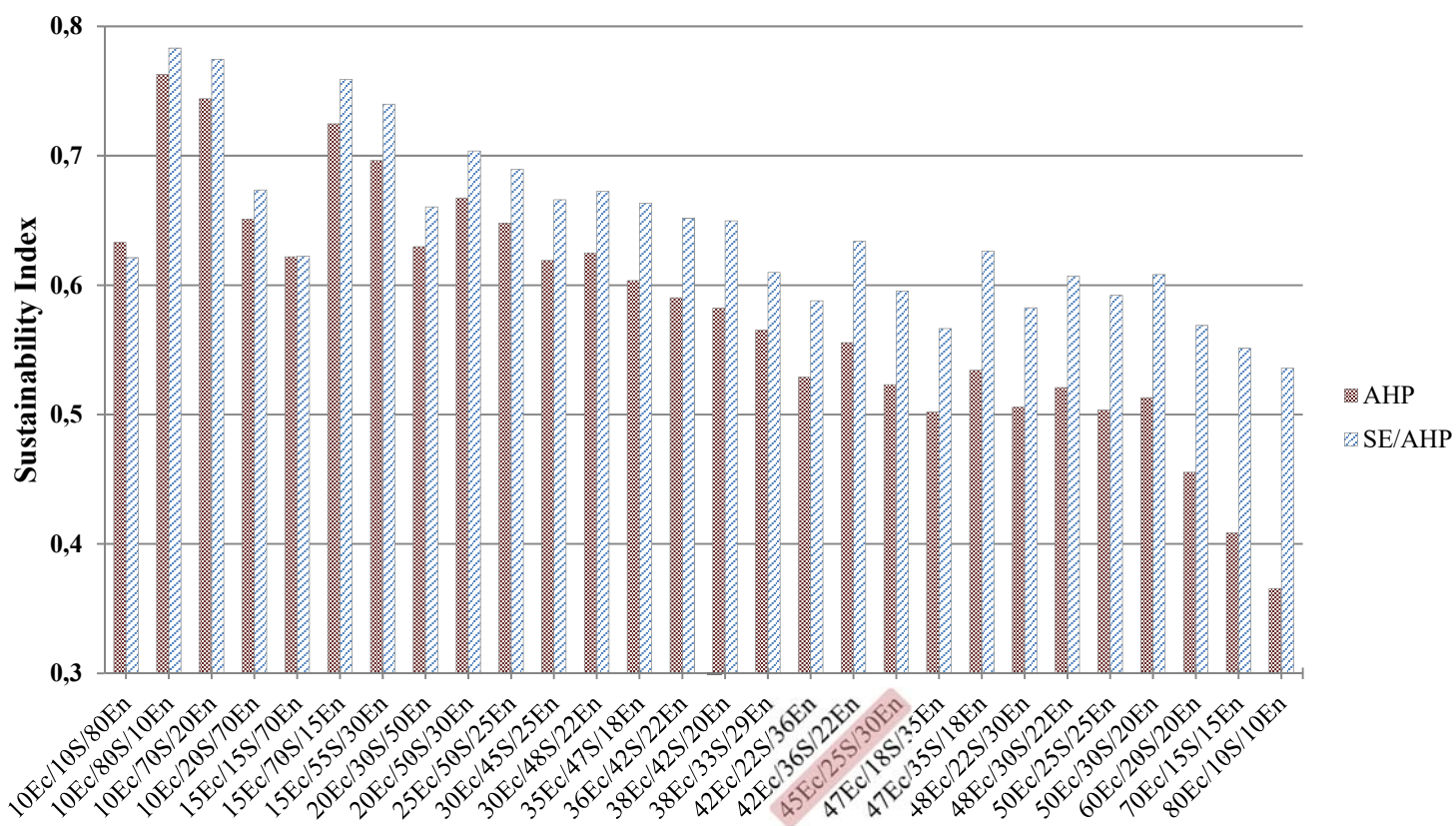


Fig. 10. Sustainability indexes of the subsets chosen by AHP and SE/AHP based on twenty-eight weighting scenarios

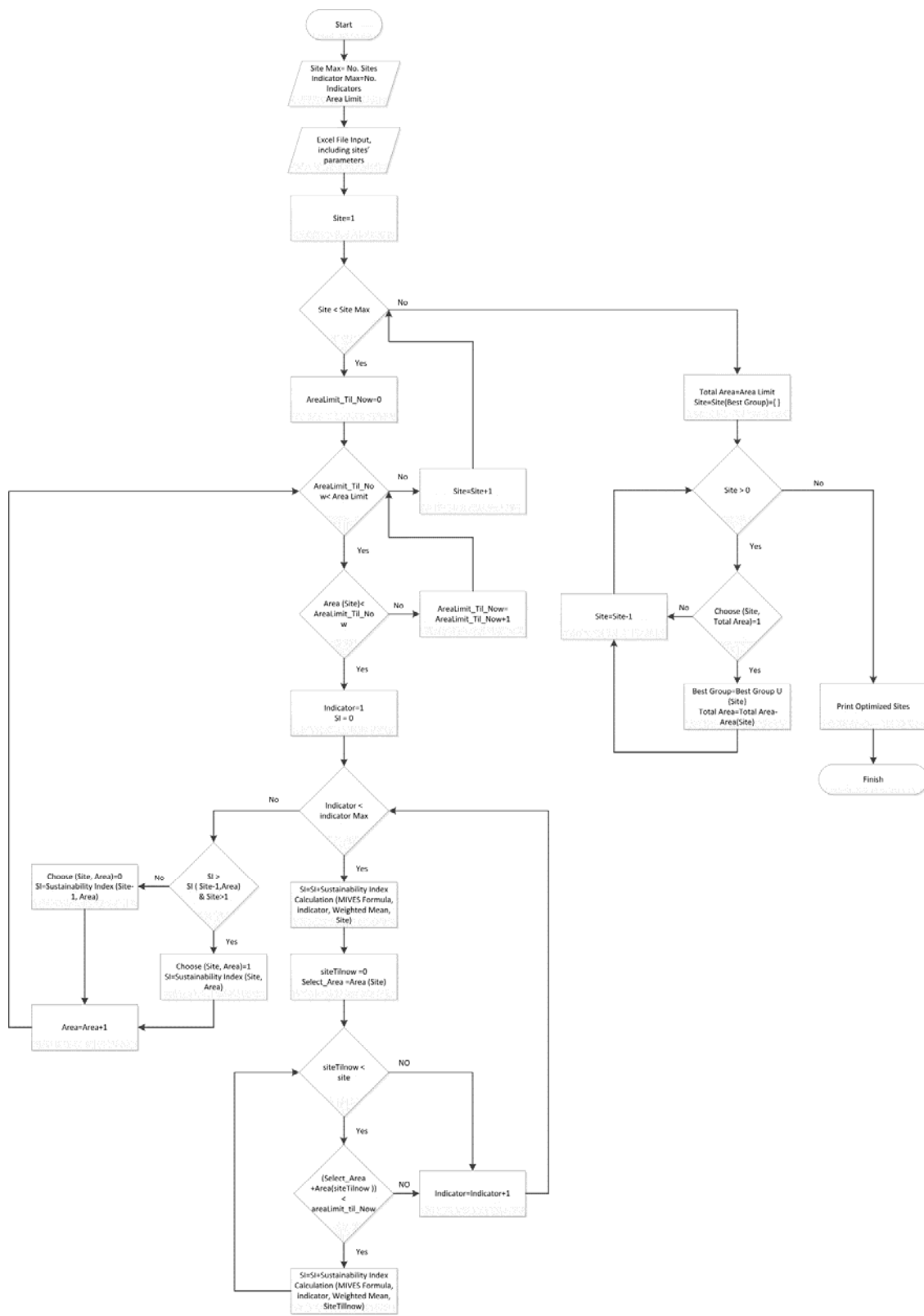


Fig. A.1. Flowchart of the MIVES+Knapsack model