Midterm

Part 3 of 5 - Simulated Annealing

For each of the following moves, assuming the problem is trying to maximize the objective function, what is the probability of accepting each move?

Question 20 of 33 0.0 Points

If the Current State (E) has an objective score of 100, the Potential New State (E') has an objective score of 70, and the Temperature is 40, what is the probability of accepting the Potential New State? 0.4724

Question 21 of 33 0.0 Points

If the Current State (E) has an objective score of 200, the Potential New State (E') has an objective score of 150, and the Temperature is 70, what is the probability of accepting the Potential New State? 0.4895

Question 22 of 33 0.0 Points

If the Current State (E) has an objective score of 150, the Potential New State (E') has an objective score of 200, and the Temperature is 100, what is the probability of accepting the Potential New State? 1

Question 23 of 33 0.0 Points

If the Current State (E) has an objective score of 100, the Potential New State (E') has an objective score of 80, and the Temperature is 20 what is the probability of accepting the Potential New State? 0.3679

Question 24 of 33 0.0 Points

If the Current State (E) has an objective score of 200, the Potential New State (E') has an objective score of 230, and the Temperature is 150, what is the probability of accepting the Potential New State? 1

Question 25 of 33 0.0 Points

If the Current State (E) has an objective score of 150, the Potential New State (E') has an objective score of 90, and the Temperature is 250, what is the probability of accepting the Potential New State? 0.7866

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