

# Simulated Annealing

Topics for discussion  
Jan 23

1. Cooling schedule
  1. Initial temperature
  2. Rate of decrease of the temperature
  3. Length of each temperature stage
  4. Criterion for termination
2. Objective (cost) function
3. Configuration space
  1. Neighborhood
  2. Elementary changes

## 4. Applications

1. Benchmark problems: TSP, JSSP, ...

2. Real world problems: molecular biology, image processing, finance, ...

## 5. Variations and developments

1. Parallelization

2. Adaptive SA

3. Dynamic cooling schedule

4. Optimizing parameters