**Randomized Optimization**

Jacob Carr

Classification Problems

Checklist:

* Random Hill Climbing
  + Four Peaks, One Max, KColor
* Simulated Annealing
  + Four Peaks, One Max, KColor
* Genetic Alg
  + Four Peaks, One Max, KColor
* MIMIC
  + Four Peaks, One Max, KColor

Interesting findings:

At low N, hill climbing actually does better than everything else, because it always finds the best peak without too many evaluations. MIMIC and genetic do the worst in terms of eval and wall clock time at this problem size. I consider this an interesting finding because increasing N can make the problem computationally prohibitive on my system. If I were running this on limited hardware for a real world application,

Training

aoeuaoeu

Analysis

aoeuaoeu