(1)

" Taboo" = "Tabu"

Think about H-C. You walk up a hill, and immediately get stuck. Options:

(1) Random Restarts
(2) Sometimes go downhill (simulated annealing)

(3) Go the best location nearby that we haven't already been to even if it's clownhill (Tabu Search)

Main Idea: Keep a list of solutions you've tried so far.

Do steepest ascent hill-clambing:

move to the best neighbor

that you have not already

been to even if that magns

going downhill.

Note: Only makes sense on discrete problems or discretizations of continuous problems.

Problems:
small problem: can be slow to check if
Gmall problem: can be slow to check if a solution has been seen
before
huge problem: this would use way too
huge problem: this would use way too much memory
J
Fix (quick sketch):
#1) Keep a list only of the N most
recent things seen.
recent things seen. #2) Don't even keep the whole solution, just keep the tweak that created it.
just keep the tweek that created it.