Max Planck Institut für Informatik Department D5 Thomas Neumann

Campus E1 4, Room 418 66123 Saarbrücken Phone: (0681) 9325 518

Email: neumann@mpi-inf.mpg.de



Query Optimization 9. Exercise, Winter 2007/2008

Due 2008-01-15

- 1. The meta heuristics like tabu search require both a description (i.e., encoding) of a solution and a local change mechanism that perturbates the currently considered solution. Give an example for a possible encoding and multiple alternatives for change functions. How does the choice affect the behavior of the meta heuristic? (3)
- 2. Give an example for an join ordering encoding, a change function and a start solution where Iterative Improvement does not find the optimal solution. (2)
- 3. Implement the Quick-Pick algorithm. Generate a number of random trees (e.g. n^2) and pick the best one. Try to keep the Quick-Pick algorithm ""quick""! (5)