

Evolutionary Computation Theory and Application (ECTA) – Assessment 2: Multiobjective 1/0 Knapsack

Alexander Asteroth, Adam Gaier, Alexander Hagg

Bonn Rhein Sieg University o.a.s., Department of Computer Science

Assessment 2: Multi-objective 1/0 Knapsack

Multi-objective 1/0 Knapsack

- Alter your NSGA-II code so find a set of pareto solutions to the 1/0 Knapsack problem
 - From a list of items decide for every item whether you will take it or not
 - Each item has a value and a weight
 - Maximize the value of items
 - Minimize the weight of items
- Submit to LEA:
 - Code (all .m files)
 - 10 optimal (non-dominated) solutions
 - PDF, including plot of final pareto front (BE SURE TO LABEL AXES)