

Approximation Algorithms

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March 18, 2014

1. Bin-Packing
 - (a) An inapproximability bound.
 - (b) An asymptotic PTAS.
2. Scheduling with unrelated parallel machines.
 - (i) Problem definition.
 - (ii) Factor 2 algorithm.
 - (iii) The LPT rule and a $\frac{4}{3}$ algorithm.
 - (iv) Restricted bin-packing.
 - (v) Reduction from makespan to Restricted bin-packing.