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An Effective Dynamic Programming Algorithm for the Minimum-Cost  
Maximal Knapsack Packing Problem

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**Highlights**

- A new and effective dynamic programming algorithm is presented.
- We studied the two best-performing formulations and proved their equivalence.
- An extensive computational study on instances with up to 5000 items is provided.
- Dynamic Programming outperforms the previous approaches by orders of magnitude.
- The covering counterpart of the problem is also studied.

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