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An exact approach for the 0–1 Knapsack Problem with Setups

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Highlights

- An exact approach is proposed for the 0/1 knapsack problem with setups (KPS)
- The approach is based on an ILP formulation with two variables sets.
- A 2-level partitioning of these sets in the branching scheme is exploited.
- The approach solves to optimality all instances with up to 100000 variables.

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