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A Hybrid Feasibility Constraints-Guided Search to the  
Two-Dimensional Bin Packing Problem with Due Dates

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**Highlights**

- We minimize maximum lateness in the bin packing and scheduling integrated problem.
- We provide a tight mixed-integer programming based lower bound technique.
- We propose a first-fit heuristic that is based on a constraint programming search.
- Our new approach hybridizes heuristic search and mixed-integer programming.
- Our new lookahead strategy guards against infeasible search directions.

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