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Stacking Outbound Barge Containers in an Automated Deep-Sea Terminal

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Highlights

- The stacking problem of outbound containers in a deep-sea container terminal is studied.
- A shared policy is proposed to stack different container types in one pile with no reshuffling.
- Our heuristic uses vertical stacking to construct and Simulated Annealing to improve a solution.
- The results show that the shared heuristic outperforms the dedicated policy often used in practice.
- The shared heuristic is robust to realistic disturbances in the arrival and departure of barges.

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