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Dynamic job assignment: A column generation approach with an application to surgery allocation

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Highlights

- We develop a surgery allocation model handling continual patient arrivals.
- We implement column generation approach with a stochastic knapsack pricing problem.
- We introduce constraints handling service levels for categories of patient.
- Two allocation policies are compared to a First-Come First-Served policy. A simulation study shows that our model performs better than a myopic approach.

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