

## Accepted Manuscript

A Stochastic Model for the Throughput Analysis of Passing Dual Yard Cranes

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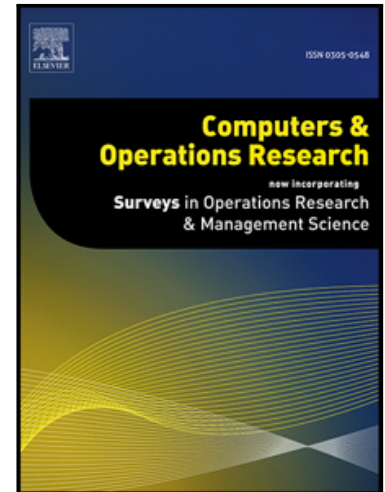
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**Highlights**

- Developed a two-level stochastic model to analyze dual crane performance
- Developed a closed-form expression to estimate crane throughput capacity
- Developed an approximate approach for estimating crane throughput times
- Transaction mix does not affect throughput of cranes in a balanced stack block

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