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Solving Semi-open Queuing Networks with Time-varying Arrivals: An Application in Container Terminal Landside Operations

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## Highlights

- Present an efficient solution method for Semi-open queue with time-varying arrivals
- Validate the analytical method with extensive simulations
- Our approach outperforms the time-average approximation of time varying-arrivals
- Apply the method to regulate truck arrivals at the landside of container terminals

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