

UTA MOHRING

Performance Analysis and Capacity Planning of  
Multi-stage Stochastic Order Fulfilment Systems  
with Levelled Order Release and Order Deadlines



# Performance Analysis and Capacity Planning of Multi-stage Stochastic Order Fulfilment Systems with Levelled Order Release and Order Deadlines

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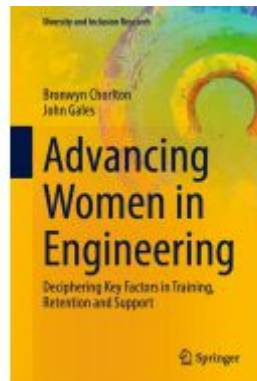
## Details

Order fulfilment systems are forced to manage a volatile customer demand while meeting customer-required short order deadlines. To handle these challenges, we introduce the Strategy of Levelled Order Release (LOR) for workload balancing over time. The contributions of this work are (1) the workload balancing concept LOR, (2) a discrete-time Markov chain for performance analysis, and (3) an algorithm for capacity planning under performance constraints in order fulfilment systems with LOR.

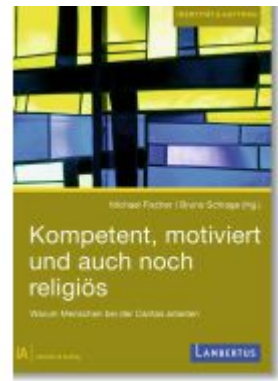
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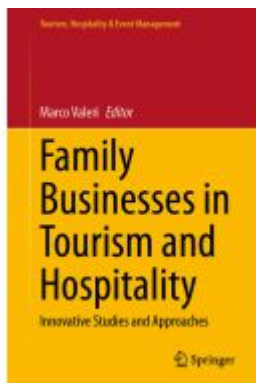
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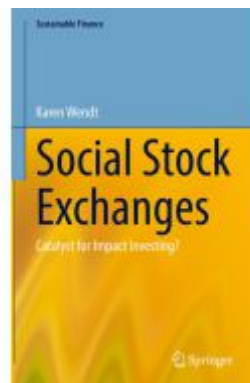
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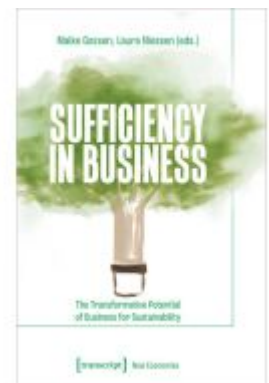
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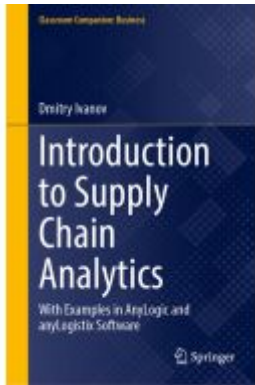
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