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Exploring Supplier Performance Risk and the Buyer's Role Using
Chance-Constrained Data Envelopment Analysis

Anthony Ross , Kaan Kuzu , Wanxi Li

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Highlights

- We evaluate supplier efficiency with data envelopment analysis and under delivery disruptions.
- We examine supplier risk by considering buyer's information sharing performance factors.
- Supplier classification is sensitive to the severity of on-time delivery disruption.
- Buyer's ability to share timely/accurate information impacts supplier performance.
- Managers can identify suppliers capable of absorbing information uncertainty and disruptions.

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