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The Multivariate Bullwhip Effect

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Highlights

- A multivariate bullwhip effect measure is developed for m products.
- Multivariate demand models are a form of horizontal information sharing.
- Horizontal information sharing can reduce effect, especially in nonstationary case.
- Cross-correlations at lags beyond lead-time do not alter effect in stationary case.
- Method to determine if multivariate or univariate model has lower effect proposed.

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