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Integrated data envelopment analysis: linear vs. nonlinear model

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**Highlights**

- Two linear and nonlinear two-stage data envelopment analysis models are compared.
- A relationship between these two models is developed.
- It is shown that the linear model is more computationally efficient.
- The linear model excludes the estimation error of the nonlinear model.
- The linear and nonlinear models are compared with real and simulated data.

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