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A Polymorphic Uncertain Equilibrium Model and Its Deterministic Equivalent Formulation for Decentralized Supply Chain Management

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Highlights

- A polymorphic uncertain equilibrium model is constructed to capture the joint maximization of profits in a supply chain for its applicability.
- By compromise programming, a deterministic equivalent formulation (DEF) of the uncertain model is obtained to find an equilibrium point.
- A modified partially Jacobian smoothing algorithm is developed to solve the DEF.
- Sensitivity analysis offers a number of useful managerial implications.

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