### **Accepted Manuscript**

Risk-Cost Optimization for Procurement Planning in Multi-tier Supply Chain by Pareto Local Search with Relaxed Acceptance Criterion

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#### ACCEPTED MANUSCRIPT

#### Highlights

- We formulate procurement planning problem under disruption risks.
- We improve Pareto Local Search by relaxing acceptance criterion.
- Improved Pareto Local Search is applied to the risk-cost optimization problem.
- Experimental results show that the proposed method works more efficiently.

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