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A robust fuzzy mathematical programming model for the closed-loop supply chain network design and a whale optimization solution algorithm

Javid Ghahremani-Nahr, Ramez Kian, Ehsan Sabet

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highlights

- Robust fuzzy modeling can address the effect of uncertainty in parameters
- The priority-based solution encoding is useful in construction of meta-heuristics
- The proposed Whale Optimization Algorithm provides fast high-quality solutions
- The solution quality is consistent without parameter-dependent behavior

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