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A Hybrid Genetic Algorithm for a Home Health Care Routing Problem with Time Window and Fuzzy Demand

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**Highlights**

- The uncertain quantity of drugs for patients in home health care service is considered.
- A fuzzy chance constraint programming for vehicle scheduling problem is proposed.
- A hybrid genetic algorithm integrated with stochastic simulation method is designed.
- 3 series of experiments are conducted to test the efficiency of the algorithm.
- Cost changes for difference value of Dispatcher Preference Index are discussed.

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