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FP-ABC: Fuzzy Pareto-Dominance Driven Artificial Bee Colony Algorithm for Many-Objective Software Module Clustering

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Highlights

- This paper, proposes a fuzzy-Pareto dominance driven artificial bee colony (FP-ABC) to solve many-objective software optimization problem.
- To this contribution, fuzzy-Pareto dominance, quality indicator, Euclidean distance and two external archive concepts incorporated into artificial bee colony (ABC) algorithm.
- The fuzzy-Pareto dominance, quality indicator, Euclidean distance improves the selection process of candidate solution and two external archives concept helps in guiding the algorithm towards better search region.
- The results are compared with the existing many-objective optimization algorithms (i.e., Two-Arch2, NSGA-III, MOEA/D, and IBEA) over seven practical problems.

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