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Identification of top-*k* influential nodes based on enhanced discrete particle swarm optimization for influence maximization

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HIGHLIGHTS

1. We make further exploration of discrete particle swarm optimization (DPSO) for influence maximization

2. A network topology-based local search strategy is proposed to enhance the local exploitation of DPSO

3. Our algorithm outperforms conventional centrality-based heuristics and achieves comparable results to greedy algorithm.

4. The proposed algorithm can provide steady performance on the identification of influential nodes.

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