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Convergence improvement of differential evolution for community detection in complex networks

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Highlights

1. Two key factors affecting the convergence performance of EA-based modularity optimization algorithm are summarized.
2. A series of effective measures are designed to improve the global convergence ability of differential evolution algorithm.
3. The performance of the proposed algorithm is validated by various networks and compared with several representative algorithms.
4. The new algorithm can detect communities with high accuracy and stability.

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