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A novel evolutionary algorithm on communities detection in signed networks

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Highlights

- 1, a novel evolution algorithm to detect communities by reveal the local information is presented.
- 2, the optimal solution of object function on community structure in signed networks corresponds to the minimum conflicts.
- 3, the evolving mechanism for the novel evolution algorithm is to adjust node's community by neighbors' effect.
- 4, results of the novel evolution algorithm converges to steady state faster than some other algorithms.
- 5, the effective of the novel algorithm is verified by comparative experiments on both synthetic and real world networks.

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