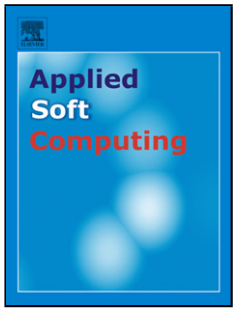
Accepted Manuscript



Title: A Local Information based Multi-objective Evolutionary Algorithm for Community Detection in Complex Networks

Author: Fan Cheng Tingting Cui Yansen Su Yunyun Niu Xingyi Zhang

PII: S1568-4946(18)30228-X
DOI: https://doi.org/doi:10.1016/j.asoc.2018.04.037
Reference: ASOC 4841

To appear in: *Applied Soft Computing*

Received date: 1-11-2017
Revised date: 9-3-2018
Accepted date: 23-4-2018

Please cite this article as: Fan Cheng, Tingting Cui, Yansen Su, Yunyun Niu, Xingyi Zhang, A Local Information based Multi-objective Evolutionary Algorithm for Community Detection in Complex Networks, *<![CDATA[Applied Soft Computing Journal]]>* (2018), https://doi.org/10.1016/j.asoc.2018.04.037

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

1) A local information based individual update strategy is suggested to improve the quality of community detection of multi-objective evolutionary algorithms (MOEAs).
2) Based on the suggested local information based update strategy, a multi-objective evolutionary algorithm, named LMOEA, is proposed for community detection in complex networks.
3) Experimental results on both synthetic benchmark and real-world networks show that the proposed algorithm performs better than existing MOEAs and single-objective EAs for community detection in complex networks.

Accepted Manuscript

Download English Version:

https://daneshyari.com/en/article/6903494

Download Persian Version:

https://daneshyari.com/article/6903494

Daneshyari.com