

## Accepted Manuscript

Overlapping influence inspires the selection of multiple spreaders in complex networks

Ming-Yang Zhou, Wen-Man Xiong, Xiang-Yang Wu, Yu-Xia Zhang, Hao Liao



PII: S0378-4371(18)30559-4  
DOI: <https://doi.org/10.1016/j.physa.2018.05.022>  
Reference: PHYSA 19562

To appear in: *Physica A*

Received date: 23 November 2017

Revised date: 9 April 2018

Please cite this article as: M.-Y. Zhou, W. Xiong, X. Wu, Y. Zhang, H. Liao, Overlapping influence inspires the selection of multiple spreaders in complex networks, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.05.022>

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.

Highlights

1. We show that most classical methods find influential single node, not multiple influential nodes.
2. Overlapping influence between nodes is characterized.
3. A greed algorithm is proposed to improve the collective influence of multiple spreaders based on overlapping influence.
4. The proposed method outperforms state of the art methods in detecting multiple spreaders.

Download English Version:

<https://daneshyari.com/en/article/7374957>

Download Persian Version:

<https://daneshyari.com/article/7374957>

[Daneshyari.com](https://daneshyari.com)