Accepted Manuscript

The competitive information spreading over multiplex social networks

Dong Yang, Tommy W.S. Chow, Lu Zhong, Qingpeng Zhang

| PII: | S0378-4371(18)31038-0 |
|-----------------|---|
| DOI: | https://doi.org/10.1016/j.physa.2018.08.096 |
| Reference: | PHYSA 19982 |
| To appear in: | Physica A |
| Received date : | 6 February 2018 |
| Revised date : | 11 June 2018 |



Please cite this article as: D. Yang, et al., The competitive information spreading over multiplex social networks, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.08.096

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

- A competitive information model is formulated over the multiplex network.
- The final density of stiflers increases with the growth of the spreading rate, while it would decline with the increase of the removal rate.
- Controlling two exchanging rates can be used for accurately predicting the growth and absolute dominance between information 1 and 2.
- The spreading process of the competitive information is closely related to the node degrees on multiplex networks.
- Using a combination of real and artificial composite networks, we evaluate the dynamical properties of the new information model.

Download English Version:

https://daneshyari.com/en/article/7375433

Download Persian Version:

https://daneshyari.com/article/7375433

Daneshyari.com