

Accepted Manuscript

Dynamical processes and epidemic threshold on nonlinear coupled multiplex networks

Chao Gao, Shaoting Tang, Weihua Li, Yaqian Yang, Zhiming Zheng

PII: S0378-4371(17)31328-6
DOI: <https://doi.org/10.1016/j.physa.2017.12.079>
Reference: PHYSA 19009

To appear in: *Physica A*

Received date: 18 July 2017
Revised date: 17 November 2017

Please cite this article as: C. Gao, S. Tang, W. Li, Y. Yang, Z. Zheng, Dynamical processes and epidemic threshold on nonlinear coupled multiplex networks, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2017.12.079>

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

- We propose a nonlinear coupled information-epidemic model.
- We demonstrate a probabilistic description of the dynamical processes by MMCA.
- The epidemic threshold is determined by the topology of coupled network and p_i^A .
- The change of upload and deletion rate has little effect on the epidemic spreading.
- We find the inflection point of β_c as a function of λ in the case of $\lambda < \lambda_c$.

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات