

## Accepted Manuscript

A modified algorithm of multiplex networks generation based on overlapped links

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PII: S0378-4371(18)31233-0  
DOI: <https://doi.org/10.1016/j.physa.2018.09.103>  
Reference: PHYSA 20164

To appear in: *Physica A*

Received date: 18 July 2018  
Revised date: 22 August 2018

Please cite this article as: Y. Zhou, A modified algorithm of multiplex networks generation based on overlapped links, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.09.103>

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**Highlights**

- I introduce a modified algorithm to generate a multiplex networks based on overlapped links.
- I maximize the average degree of the multiplex network both in theoretical and numerical ways.
- The results manifest the satisfactory performance of the algorithm with the theoretical analysis.
- The proposed algorithm and given conditions could generate multiplex networks in a rather general extent.

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