

Accepted Manuscript

Link direction for link prediction

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PII: S0378-4371(16)30953-0

DOI: <http://dx.doi.org/10.1016/j.physa.2016.11.129>

Reference: PHYSA 17785

To appear in: *Physica A*

Received date: 13 May 2016

Revised date: 16 November 2016



Please cite this article as: K.-k. Shang, M. Small, W.-s. Yan, Link direction for link prediction, *Physica A* (2016), <http://dx.doi.org/10.1016/j.physa.2016.11.129>

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Highlights:

- Various directional links play different prediction roles by mathematical analysis.
- Bi-directional links are more informative for link prediction by real data testing.
- We propose a new directional randomized algorithm to analysis the role of direction.

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