

number of learned agents. It is suitable for the actual situation. If one's learning efficiency is improved, its speed of learn something becomes high. So, firm should try its best to improve its own learning efficiency to absorb new technology faster than before, then gains and holds competitive advantage.

There are many issues arising from on this model that are worth further investigation. For example, this paper has analyzed the absorptive ability, but the disseminative ability and its impact have not been discussed. For the process of absorbing knowledge from neighbors, only the case of random absorption capability is considered. But different absorption capabilities for different agents with different links are more realistic, which will be further studied in our future research.

References

- [1] M. M. Parent, D. MacDonald and G. Goulet "The theory and practice of knowledge management and transfer: The case of the Olympic Games" Sport [J]. Management Review, 2013.
- [2] P. H. Hendriks and C. A. Sousa "Rethinking the liaisons between Intellectual Capital Management and Knowledge Management" [J]. Journal of Information Science, 2013, 39(2): 270-285.
- [3] Qiang Li. The combination of Human Resource Management and Knowledge Management in E-commerce environment [J]. Management Science and Electronic Commerce. 2011, 4(8): 6432-6437
- [4] Choudhary, A, Kohar, V, Sinha, S. Noise enhanced activity in a complex network [J]. European Physical Journal, 2014, 87(9): 202-210.
- [5] Qzkanlar, A, Clark, A.E. ChemNetworks: a complex network analysis tool for chemical systems [J]. Journal of Computational Chemistry, 2014, 35 (6): 495-505.
- [6] S. Ferretti. Publish-subscribe systems via gossip: a study based on complex networks [J]. Proceedings of the Fourth Annual Workshop on Simplifying Complex Networks for Practitioners, 2012, 12, 7-12
- [7] Kashirin, V.V, Ivanov, S.V. Heuristic algorithms for modelling and optimisation of complex network structures [J]. Dynamics of Complicated Systems, 2013, 7(3): 41-46.
- [8] M.E.J. Newman, Ranking in collaboration networks using a group based metric [J]. Journal of the Brazilian Computer Society, 2011, 17 (4): 255-266.
- [9] Guopeng Li, Zhisong Pan, etc. Community discovery and importance analysis in social network [J]. Intelligent Data Analysis, 2014, 18(3), 495-510.
- [10] I. Licata, A dynamical model for information retrieval and emergence of Scale-Free clusters in a long term memory network [J]. Emergence: Complexity and Organization, 2009, 11 (1): 48-57.
- [11] S. Ferretti. Publish-subscribe systems via gossip: a study based on complex networks [J]. Proceedings of the Fourth Annual Workshop on Simplifying Complex Networks for Practitioners, 2012, 12, 7-12.
- [12] M, C.W. and L.D. A, Absorptive capacity: A new perspective on learning and innovation [J]. Administrative Science Quarterly, 1990.
- [13] George, Z., Absorptive Capacity: A Review

- Reconceptualization and Extension [J]. Academy of Management Review, 2002, 17(2):185-200.
- [14] Mu, J., F. Tang, and D.L. MacLachlan, Absorptive and disseminative capacity: Knowledge transfer in intra-organization networks [J]. Expert Systems with Applications, 2010, 37(1): 31-38.
- [15] Zhou, Z. and Z. Chen, Formation Mechanism of Knowledge Rigidity in Firms [J]. Journal of Knowledge Management. 2011, 15(5): 820-835.

Author Profile

Hailian Liu received the M.S. degree in Management from the School of Economics and Management, XIDIAN UNIVERSITY, China during 2010 and 2014. She is now pursuing Masters of Management Science and Engineering from XIDIAN UNIVERSITY since 2014 under the guidance of Prof. Shizhong Ai. Her specialization area is knowledge management.

