

产业集群参与者交互偏好与知识网络演化:模型与仿真

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Interaction Preference of Firms in Industrial Cluster and Evolution of Knowledge Networks: Model and Simulation

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摘要 知识网络是产业集群网络演化的重要组成部分和先决条件,本文将产业集群中参与者进行交互的偏好分为任务导向型和知识导向型,建立了一个基于多智能主体的产业集群知识网络模型,利用Blanche软件实现了知识网络演化模型的仿真计算,通过仿真研究了任务导向型和知识导向型知识网络的对网络演化的不同影响.最后,本文提出了研究的局限性和下一步研究的方向.

关键词: [产业集群](#) [知识网络](#) [演化](#)

Abstract: Evolution of microcosmic Knowledge Network(KN) is precondition and important part of evolution procedure of industrial cluster network. In this paper, firms in industrial cluster are classified as Task-lead and Knowledge-lead according to their preference of interaction among them. A Multi-agent-based model is constructed and simulated using Blanche software which is a tool for research of multi-agent networks. The characteristics and the effect to KN evolution of Task-lead KN and Knowledge-lead KN are analyzed based on the simulation of the model. Finally, the limitation of the research is concluded and the agendas are discussed for the future research.

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