

عنوان مقاله:

The effect of artificial intelligence algorithm on risk of international business supply chain services

محل انتشار:

پنجمین کنگره بین المللی مهندسی، تکنولوژی و علوم کاربردی (سال: 1402)

تعداد صفحات اصل مقاله: 17

نویسنده:

HOSSEIN SALEHI SHAHRAKI - Department of Computer Engineering, Isfahan Branch, Islamic Azad University, Isfahan, Iran

خلاصه مقاله:

As the process of global economic integration deepens, financial services in the supply chain of international trade have also flourished. International business supply chain financial services have played an important role in solving supply chain organizational financing. As far as the energy industry is concerned, international trade supply chain finance services can provide sufficient credit support for energy companies. This will solve the financing problem of small and medium-sized energy companies in import and export business, and it can also improve the capital turnover rate of large energy companies. However, since international trade supply chain financial services still face the impact of risks such as company credit risk, bank operational risk, and supply chain company information transmission risk, its performance in financing has not been fully applied. Early warning and control of risks in international trade supply chain financial services can play the role of international trade supply chain financial services in promoting the development of the energy industry. Therefore, this paper used three artificial intelligence (AI) algorithms including artificial neural network, genetic algorithm and particle swarm algorithm to analyze the risk of financial services in the international trade supply chain of the energy industry. An early warning model of risk was built on the financial services supply chain of international trade of the energy industry, and an empirical study was conducted on the early warning model of risk. The research showed that the early warning model of risk based on artificial intelligence algorithm enables banks to improve the accuracy of credit assessment of companies by 7.43% and the accuracy of information collection by 5.61%. It improved the accuracy of forecasting external environmental risks by 3.52% and reduced the bank's operational risk by 6.58% and legal and regulatory risk by 7.06%.

کلمات کلیدی:

Supply chain financial services. International trade financing chain. Service risk. Energy industry. Artificial intelligence algorithm

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1982037>

