سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
CIVILICA.com

عنوان مقاله:

A Framework to Evaluate Readiness for Blockchain Technology Implementation

محل انتشار:

فصلنامه مدیریت فناوری اطلاعات, دوره 14, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 31

نویسندگان:

Hosseinpouli Mamaghani - *Master of Information Technology Management, Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran.*

Elahi - *Professor, Department of Information Technology Management, Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran*

Hassanzadeh - *Professor, Department of Information Technology Management, Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran*

خلاصه مقاله:

In recent years, Blockchain technology has been recognized as one of the most important new technologies affecting businesses and society, with a very bright future ahead. This technology is known as one of the most critical technologies of industry ۴. Given that Blockchain technology is a new concept, before implementing it, the organization must understand it and be prepared to accept it; otherwise, the organization will incur irreparable damages. The main purpose of this study is to provide a framework within which organizations can evaluate their readiness to implement Blockchain technology. For this purpose, after a library study and systematic literature review, this study provided the initial research framework using the meta-synthesis method. Finally, the Lawshe model was applied to validate the proposed framework for the organization's readiness to implement Blockchain technology. Based on the findings, the final established framework included seven main dimensions, including Blockchain-based business strategy, operations of a distributed system, culture, people in Blockchain decentralized network, decentralized governance, technology, and Blockchain-based product traceability. Besides, ۳۷ main criteria affected these dimensions, which can help companies increase the level of Blockchain technology readiness. Finally, this framework was used to measure the readiness of an airline company. According to the results of the analysis, Blockchain-based business strategy, culture, and Blockchain-based product traceability showed a medium level of readiness. Moreover, none of the main dimensions of Blockchain technology readiness were sufficiently prepared in this case study. This paper suggests practical recommendations to improve the level of Blockchain technology readiness for the managers

کلمات کلیدی:

Blockchain technology, Readiness framework, Systematic review, Meta-synthesis, Logistics

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1635775