Int. J. Nonlinear Anal. Appl. 14 (2023) 7, 135–142

ISSN: 2008-6822 (electronic)

http://dx.doi.org/10.22075/ijnaa.2022.26009.3199



Development and rational combination of continuous auditing research based on the presentation of an optimal model

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(Communicated by Mohammad Bagher Ghaemi)

Abstract

Continuous auditing is a concept that refers to more frequency of audit reports and tries to use new technologies to lead the audit process towards more automation and reporting of exceptions. Continuous auditing was performed based on the presentation of the desired model. This research was a descriptive correlation study using structural equation modeling. The research community included all certified auditors who are members of the Iranian Association of Certified Public Accountants. The number of samples in this study was estimated to be 110 people who were selected by simple random sampling. A questionnaire was used to collect data. Statistical analysis was performed with LISREL software. Structural equation modeling was also used to test the research hypotheses. The results showed that audit factors such as the use of more analytical techniques and skills in the continuous auditing system, the establishment of risk management systems, improving the effectiveness and efficiency of the internal control system, increasing demand from stakeholders to provide audit reports on the development and rational composition of audit research. Continuous auditing has a significant effect.

Keywords: Continuous Auditing, Development and Rational Combination of Research, Internal Control

2020 MSC: 58E25

1 Introduction

The provision of reliable accounting information and financial statements is one of the basic needs of today's changing world. Mechanisms such as a proper management system in companies and other economic enterprises are needed to ensure this. The audit committee is one of the main pillars of the corporate governance system that strengthens financial reporting and promotes the independence of independent auditors [5]. The demand for auditing in the reporting process is justified for it is carried out under conditions of conflict of interest of economic consequences with the importance of the complexity of economic activities and lack of direct access. Conflict of interest between the two groups of producers and users of information is the most important justification for the need for an internal audit system [7]. Today, accounting information systems play a very important role in the workflow of organizations and the economic environment of countries. Many economic decisions are made based on information provided by these systems. Also, a major share of securities exchanges is devoted to the buying and selling of corporate stocks, which in turn can be influenced by accounting figures and information. Therefore, any research on how accounting information

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Received: January 2022 Accepted: March 2022

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affects a wide range of stakeholders in companies, helps to better understand how and the role of this information and the need for better disclosure. Thus, considering the role of continuous accounting, it is important to examine the development and rational composition of continuous auditing research based on the presentation of a desirable model. In general, the advantages of continuous auditing may be summarized as follows:

- 1. High-speed identification of significant risks or control deficiencies and reporting to the management of the traditional cycle audit approach, reports these risks and problems only when the audit has been performed.
- 2. The accuracy of the data in the company can be improved through the proper use of continuous auditing. data errors can be checked reviewed and corrected in a timely manner as soon as being identified by the auditing.
- 3. Improving the operational efficiency and effectiveness of business units.
- 4. quick fraud detection [9].

This paper aims at while examining the knowledge of IT accounting and auditing and the impact of each on the other, achieving clear results regarding the interaction and close relationship between IT and the accounting and auditing profession. Rapid changes in information technology have led to the widespread development of multi-user systems and the desire of organizations to develop and implement new software systems. Auditing as a business language and information system must adapt to new technologies to be able to serve financial users. Information technology has also changed in the field of accounting and auditing training. However, every day, accountants and auditors are witnessing the development of new technologies in their profession that they should recognize and take the best advantage of it. Therefore, in this paper, we seek to develop and logically combine continuous auditing research based on a desirable model.

This research is important for the increasing development of information technology, along with its increasing speed, has covered all dimensions of human societies. The need for quick access to accurate and safe, relevant and timely information, with minimum cost and maximum efficiency, has led to the tendency to use new technologies as a governing factor in organizations and has forced them to keep up with the interface. Need and necessity are the main factor of progress and information technology in today's world. This new, fast-paced wave has transformed the way things are done, from paper-based systems to electronic information systems and software. The accounting and auditing profession is perhaps more exposed to the use of the facilities of the new environment than other areas of financial knowledge. The new space of information recording and reporting has created many effects on the efficiency and effectiveness of this profession.

2 Theoretical and experimental foundations

The purpose of financial reporting is to provide useful information for managers and investors to allocate resources properly [14]. In order for this information to be useful, it must be timely and free from significant errors, omissions, and fraud. In economics, reliable and timely information is essential for day-to-day decisions about strategic planning, capital raising, accreditation decisions, and supply partnerships. [16]. Given the increasing growth of information technology and the possibility of accepting large volumes of data in a short period of time as well as financial crises, many criticisms have been leveled at audit methodology, which is the same as sampling-based auditing at specific times and delayed reporting [6]. All of this raises the need for a new approach to auditing that can lead to continued validation of the firm's financial information, which is called continuous auditing [12]. With the increasing use of information technology, the demand for timely assurance of the available mass of information has increased that the realization of this important in the auditing profession requires the transition to traditional auditing and moving towards prompt auditing (continuous auditing) [18]. Immediate auditing is a type of audit that provides results simultaneously or over a short period of time after the occurrence of financial events. Over the past decade, research in the field of continuous auditing has started with the advancement of information technology [10]. The pace of change in information technology and the virtual production of data in the business environment has affected various aspects of accounting and auditing [3].

Computer-assisted auditing, which has led to a significant increase in audit performance, is almost pervasive. The availability of computer networks makes it possible to significantly increase the frequency of periodic audits by redesigning the audit architecture around continuous auditing [13]. Today, the phenomenon of e-commerce is one of the most important changes in the economic environment. Since in the electronic environment most of the evidence is only available electronically, it seems difficult to validate and process this evidence using traditional methods with felt changes in past audit procedures. E-commerce as one of the consequences of information technology for auditors and users of financial information has opportunities and threats [15]. Despite instant access to corporate databases, users are not satisfied with just annual financial statements and need more interim financial statements than ever before.

On the other hand, not all online information is reliable and must be verified by an independent third party as soon as possible. Continuous auditing is a good answer to this need. Despite the advantages of continuous auditing, the auditing process in Iran is still traditional [17].

3 Literature review

Barani [2] examined the effect of continuous auditing on the quality of audit reports (a case study of Electronic Monitoring System of Supreme Audit Court (SANA)). In today's world, with the increasing use of information technology, the demand for timely assurance of the mass of available information has increased that the realization of this important in the auditing profession requires the transition from traditional auditing and moving towards prompt auditing (continuous auditing). Immediate auditing is a type of audit that provides results simultaneously or over a short period of time after the occurrence of financial events. Over the past decade, research in the field of continuous auditing has started with the advancement of information technology. The Supreme Audit Court, like other organizations today, in order to increase the efficiency and effectiveness of its activities, needed to use information and communication technology, and therefore put the national plan for the implementation of the Electronic Monitoring System (SANA) project on its agenda. The purpose of this study was to investigate the effect of using the electronic monitoring system (SANA) of the National Audit Office on the quality of the reports of the auditors of this court. Studies show that according to the obtained path coefficients and also the amount of T-value of the components of the Electronic Monitoring System of Supreme Audit Court (SANA) plan as well as other factors outside the above plan has a significant positive effect on the quality of auditors' reports. This was an applied analytical survey. The study population included all employees of the Supreme Audit Court who are involved in any way with the project (Electronic Monitoring System of Supreme Audit Court) and are involved in any way with the Electronic Monitoring System of Supreme Audit Court project and are familiar with this system. The statistical sample of this paper included the staff of the technical and computer departments in the provinces of Tehran, Qazvin, Zanjan, Qom, Isfahan, Markazi, Lorestan, Semnan, East and West Azerbaijan.

Chiu et al. [4] examined the development and intellectual structure of audit research. In this research, the progress and continuous development of technology has been identified. For the past twenty years, universities have paid close attention to the accounting profession. Also there has been increasing demands and opportunities for audits to be automated, ongoing, and almost real-time. This paper reviews audit research by providing an overview of the emergence and growth of the continuous auditing literature and the classification of continuous auditing research. [8] in a study entitled "Auditors' Perception of the Impact of Continuous Auditing on the Quality of Online Financial Reporting in Egypt", concluded that auditors in Egypt understand the need to implement continuous auditing and its consequences, as well as the need for the challenges facing the online financial reporting environment. The results showed that auditors believe that continuous auditing can strengthen the reliability, relevance and comparability of financial information reported based on international financial reporting. In addition, the fact that the auditing firm is one of the four largest auditing firms increases the impact of continuous auditing on the relevance of the information provided online.

4 Research Hypothesis

4.1 The main hypothesis

• There is a significant relationship between the development and rational composition of continuous auditing research and the basis for providing a desirable model.

4.2 Sub-hypotheses

- 1. There is a significant relationship between the need to use computer-based auditing tools and the basis for providing a desirable model.
- 2. There is a significant relationship between the establishment of risk management systems and the basis for providing a desirable model.
- 3. There is a significant relationship between increasing the validity of financial reporting results and the basis for providing a desirable model.
- 4. There is a significant relationship between the need to present the results of continuous auditing to management and the basis for providing a desirable model.

- 5. There is a significant relationship between the ability of continuous auditing unit staff to assess risk, and the use of technology.
- 6. There is a significant relationship between information and evaluation of controls and the basis for providing a desirable model.
- 7. There is a significant relationship between the use of more analytical techniques and skills in the continuous auditing system than internal audit and the basis for providing a desirable model.
- 8. There is a significant relationship between the need for continuous auditing independence and the basis for providing a desirable model.
- 9. There is a significant relationship between the auditor's individual characteristics such as skill, knowledge, ethics and the basis for presenting the desired model.
- 10. There is a significant relationship between the increased risk of fraud following the growth of information technology and consequently the need for a continuous auditing system and the basis for providing a desirable model.
- 11. There is a significant relationship between improving the effectiveness and efficiency of the internal control system in case of implementation of continuous auditing system and the basis for providing a desirable model.
- 12. There is a significant relationship between the increase in demand from stakeholders to provide continuous auditing reports and the basis for providing a desirable model.
- 13. There is a significant relationship between increasing stakeholder understanding of the continuous auditing system and the basis for providing a desirable model.

5 Research method

This research is an applied, analytical and descriptive paper. The results can be used by auditors and experts. Also, this is a cross-sectional paper. Data was collected using field study method. The statistical population includes auditors who are members of the Iranian Institute of Certified Accountants. Therefore, according to the test method, it is necessary to consider a reasonable volume for the sample group. Data for testing hypotheses were collected through the distribution of questionnaires among the sample. Also, a sample of 110 auditors being member of the Association of Certified Public Accountants was selected using simple random sampling based on sample size estimated by Morgan's table. In this paper preliminary information was collected and a theoretical framework was formulated in accordance with the library sources, websites, university libraries and related documents in an inductive method. On the other hand, this is an applied analytical paper in which the researcher seeks to find the answer to a problem. The data is first collected by distributing a questionnaire and then processed and the hypotheses in the research are tested in SPSS.20 software. We used Cronbach's alpha test to assess the reliability of the research questionnaire. Thus, 20 questionnaires were distributed first. Having collected the questionnaires, we calculate the Cronbach's alpha coefficient of all the questionnaire indicates the acceptable reliability of the questionnaire.

Validity is a degree of accuracy of the study results and shows to what extent the study correctly measured what it intended to measure. The simplest way to check the validity of the measuring instrument is whether the instruments apparently correctly evaluates the variable under study. In this research, the questionnaire has been reviewed, corrected and standardized several times by professors and experts, and therefore the content validity of the questionnaire is confirmed.

Cronbach's alpha coefficient test was used to assess the reliability of the research questionnaire. To obtain the Cronbach's alpha coefficient, 30 questionnaires were first prepared and distributed among the statistical population. Having collected the questionnaires, we calculate the Cronbach's alpha coefficient of all the questionnaires and each of its dimensions using spss.20 software. The Cronbach's alpha coefficient of more than 0.7 per questionnaire indicates the acceptable reliability of the questionnaire. A summary of Cronbach's alpha coefficients of the questionnaires is given in the table below. According to the obtained coefficients for the questionnaires (greater than 0.7), it can be said that the questionnaires have acceptable reliability.

Table 1: Summary of Cronbach's alpha coefficients of the questionnaires

Questionnaire	Cronbach's alpha coefficient
Development and rational combination of auditing research	0.741
Development and rational combination of auditing research	0.802

5.1 Kolmogorov-Smirnov test

This paper has used the Kolmogorov-Smirnov test to test the normality of the data. The Kolmogorov-Smirnov test is a simple non-parametric method for determining the homogeneity of experimental information with selected statistical distributions. This test is applicable in cases where the number of observations is small, n, due to its accuracy, and it is a simple test that considers each observation as original (without classification) and is used only for continuous data. In the Kolmogorov-Smirnov test, a null hypothesis that we will test is the distribution of observations and a definite distribution that we have thought with different conjectures or evidences that the distribution of observations corresponds to that particular distribution [1]. To determine the type of test used for the hypotheses set for the research, first we check the normality or abnormality of the hypotheses data, then we apply the results of this test to parametric or non-parametric statistical methods suitable for testing the hypothesis. According to the table, the probability of the Kolmogorov-Smirnov statistic for the research variables of the hypothesis test is less than the error level of 0.05, therefore the null hypothesis that the research variables are normal is rejected. Due to the high number of data according to the central limit theorem, these variables will have normal behavior even if they are not normal and whether these variables are normal or not will not affect the research process [11]. The central limit theorem states that the larger the number of samples, the more symmetrical the distribution around the mean, resulting in a bell-shaped (normal) sample distribution.

Table 2: Test of normality of variables (Kolmogorov-Smirnov)

Variable	Kolmogorov-Smirnov	Possibility	Test result
Development and rational combination of audit re-	1.639	0.009	Normal asymptomatic
search			
Continuous auditing	1.754	0.004	Normal asymptomatic

6 Demographic and descriptive information

Table 3: Frequency distribution of participants' education according to gender

Gender	Education			
Gender	Associate degree	Bachelor degree	Master degree	Total
Female	10	12	11	33
Male	15	37	25	77
Total	25	49	36	111

According to the table above 3, the number of female participants is 33 and the number of men is 77. There are 25 participants holding an associate degree, 49 holding a bachelor degree, and 36 holding a master degree. The table above also shows that the education in term of gender as follows: 10 female participants hold an associate degree, 12 hold a bachelor degree and 11 hold a master's degree. Also, 15 male participants hold a master's degree and 37 hold a bachelor degree and 25 hold a master's degree. The questionnaire is presented as the following in terms of items and separation of variables, respectively:

	Table 4:	
Variable	Component	Items
	The need to use computer-based auditing tools	1-6
	Establishment of risk management systems	7-11
	Increase the credibility of financial reporting results	12-16
	The need to provide the results of continuous auditing	17-22
	Capacity building in continuous auditing unit staff for risk assessment	23-26
	Information and evaluation of controls	27-33
Independent	Use more analytical techniques and skills in the continuous auditing system	34-41
	The need for independent audit	42-46
	Personal characteristics of the auditor	47-51
	Increased risk of fraud following the growth of information technology	52-55
	Improve the effectiveness and efficiency of the internal control system	56-61
	Increased demand from stakeholders to provide audit reports	62-65
	Increase stakeholder understanding of the continuous auditing system	66-69
Dependent	Development and rational combination of continuous auditing research	70-75

Main Hypothesis: The conceptual model related to the development and rational composition of continuous auditing research has a good fit.

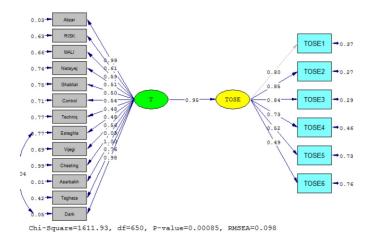


Figure 1: Conceptual model of research in standard estimation mode (to test the main hypothesis)

The structural model shows the research in the standard estimation mode to test the main hypothesis. According to the diagram above, RMSEA= 0.098, GFI= 0.91, AGFI= 0.92 indicate the good fit of the structural model. In other words, the observed data is largely consistent with the conceptual model of the research.

Chi-square=1611.93, df= 650, P-value= 0.00085, RMSEA= 0.098

Goodness of fit Index (GFI)=0.91

Adjusted Goodness of fit Index (AGFI)=0.92

According to the Model 27, the impact factor of the conceptual model related to the development and rational composition of continuous auditing research is 0.95 and has a good fit.

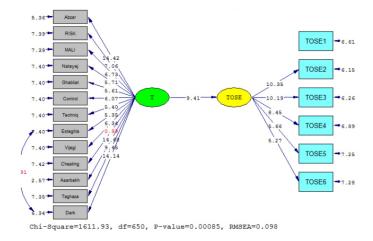


Figure 2: Significant numbers of structural model coefficients for hypotheses

The significance of coefficients model and obtained parameters of the conceptual model related to the development and logical combination of continuous auditing research shows the significant coefficients value of 1.96. According to the diagram above, the number obtained for conceptual model related to the development and rational composition of continuous auditing research is 9.41, which is also significant and indicates that the model has a good fit.

7 Conclusions and Suggestions

The initial development of continuous auditing synthesis products emerged among academic research in the late 1980s. Researchers have proposed two types of architectures for continuous auditing products: the audit scale approach, in which the logic of retrieving exceptions is integrated with the accounting system, and the layer control approach, in which the exception tracker is a self-reliant system, although the development of most continuous auditing synthetic products has taken place in academia, the commercial market for advanced synthetic products is growing.

Rutgers has sponsored meetings at New Jersey State University since the early 1990s to encourage continuous research and the practical application of auditing. The presentation of various articles in these sessions shows that synthetic continuous auditing products are potentially used in at least three distinct global domains in Figure 2. Continuous auditing can; 1) alter the production and dissemination of business intelligence by providing real-time financial reporting results; 2) change the reliability of systems by providing artificial products for greater efficiency and effectiveness of independent auditors of financial statements; and 3) change the design and implementation of internal controls by providing artificial products to monitor transactions and identify anomalies. Continuous auditing product evaluation research varies considerably for each purpose, including differences in different applications for evaluating and refining continuous auditing artificial product.

Provide independent assurance. Continuous auditing has not yet had much methodological success in providing independent audits for more efficient and effective financial statements of the company, and there is little research to evaluate continuous auditing among these elements. Audit firms seem to tend to abandon the traditional "Chapter 20" business model to conduct continuous audits to audit clients. Specializing audit procedures for each specific client is difficult and costly, and clients may not be allowed unrestricted access to third-party systems due to the possibility of loss of information or system security obligations.

Table 5:			
Hypothesis	Impact	Reject or confirm the hypothesis	
The need to use computer-based audit tools has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
The establishment of risk management systems has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Increasing the credibility of financial reporting results has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
The need to present the results of continuous audit has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Capacity building in continuous audit unit staff for risk assessment has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Information and evaluation of controls have a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
The use of more analytical techniques and skills in the continuous audit system has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
The need for independent auditing has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
The individual characteristics of the auditor have a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Increased risk of fraud following the growth of information technology has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Improving the effectiveness and efficiency of the internal control system has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Increased demand from stakeholders to provide audit reports has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	
Increasing stakeholder understanding of the continuous auditing system has a significant impact on the development and rational combination of continuous auditing research.	Direct	Confirmed	

Given the results of this paper, the following practical suggestions are presented as a practical aspect of the research:

- 1. According to the results of this study, it seems that in order for organizations to move towards the acceptance and application of continuous auditing, it is necessary to first provide the requirements. Setting rules and standards in this field, organizations' attention to the use of advanced technologies, especially in the creation, maintenance and flow of data in an integrated manner, attention to the internal control environment in organizations and raising awareness of stakeholders about their rights and responsibilities, can all increase the ability to implement continuous auditing. Although it takes time for managers of Iranian organizations to become familiar with the advantages of implementing a continuous auditing system and to be able to consider implementing at least some levels of the system in their budgeting plans, this trend is promising; because, according to some senior managers of auditing firms, some organizations are already implementing continuous auditing in some of their departments.
- 2. Because continuous auditing enables auditors to examine larger samples of client transactions more quickly and efficiently than manual audit tests, it can also reduce the time and expense that auditors have traditionally spent manually reviewing transactions and account balances. To reduce the period or cycle of the audit, the auditors must make the necessary arrangements to benefit from the advantages of continuous auditing in practice.

3. On the other hand, continuous auditing and monitoring can provide the basis for access to a wide range of products and services provided by professionals, which requires a set of diverse skills to implement and manage them effectively. Thus, there is a degree of inequality between the competencies required and the skills acquired in practice by ordinary professionals. To address these issues, by effectively documenting and disseminating the value of this approach, as well as the ongoing training, support, and oversight of groups such as the American Association of Certified Public Accountants and the Corporate Accounting Oversight, continuous auditing as well as ongoing oversight can fully demonstrate its capabilities.

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