THE INFLUENCE OF ENVIRONMENTAL UNCERTAINTY ON THE ACCOUNTING INFORMATION SYSTEM QUALITY AND ITS IMPACT ON THE ACCOUNTING INFORMATION QUALITY

1RUHUL FITRIOS, 2AZHAR SUSANTO, 3ROEBIANDINI SOEMANTRI, 4HARRY SUHARMAN

1 Accounting Departement, Faculty of Economics & Business, Riau University, Pekanbaru, Indonesia
2,3,4 Accounting Departement, Faculty of Economics & Business, Padjadjaran University, Bandung, Indonesia

E-mail: 1rfitrios@yahoo.co.id, 2azhars2015@gmail.com, 3roebiandini@ta-44.com, 4harry.suharman@unpad.ac.id

ABSTRACT

The organizational environment is one factor that is considered when planning and operating the accounting information system. The inability of decision makers to capture information about changes and environmental complexity underlies the lack of accounting information systems quality. This study aims to examine the effect of environmental uncertainty on the accounting information system quality and their impact on the accounting information quality. The study was conducted on 104 financial unit of higher education accredited in Java from 238 target populations selected by stratified random sampling technique. This study uses descriptive method and verificative method. The study results show that environmental uncertainty significantly influences the accounting information system quality, dan accounting information system quality significantly influences accounting information quality. The study results can be used to solve the problem on there have no quality of accounting information system by improving the ability accounting information system to adjust and accommodate environmental changes and complexity.

Keywords: Environmental Change; Environmental Complexity; Accounting Information System Quality; Accounting Information Quality.

1. INTRODUCTION

An organization is in an environment, where the organization needs resources from the environment, then supply the goods and services to the environment [1]. The environment generally changes faster than the organization, such as technological changes, tastes and values [1]. Factors in the organizational environment create uncertainty for the organization [2]. To reduce the effects of such environmental uncertainty, organizations need the role of information [3].

Information contributes to make better the quality of organizational or individual decisions and improve the ability of the organization to plan and prepare its activity schedule [3]. Organizations need and use information, both financial and non-financial information to take decisions and solve problems more closely [4]. Thus it can be said that information becomes a resource in business and is vital to the survival of a business organization [5]. Information is said to have quality, only if the information is relevant and useful to the user [6]. People need such high-quality information, namely: information products that have characteristics, attributes, or qualities that make information more valuable to them [7]. Such quality information is generated by an effective information system [1]. In addition usefull accounting information is generated by accounting information systems by collecting data and converting it into important quality information [8]. Several previous studies have proved the importance of the role of accounting information systems to produce quality accounting information [9], [10], [11].

Accounting information system is a set of components used to process financial and non-financial data into quality financial information for...
decision makers [12]. Quality of accounting information system is described by characteristics, such as integration, reliability, and flexibility [13]. System integration is formed when system components connect and work in harmony [14]. The reliability of a system is seen when the accounting information system is able to produce accurate, timely information reflecting the results of properly authorized transactions and of all activities undertaken within the organization over a period of time [15]. System flexibility is demonstrated by the ability of the system to accommodate changes in information needs [16].

Some phenomena reveal that accounting information systems in various universities, as follows: Accounting information system at Gadjah Mada University has not been integrated because many units (faculties / directorates) have their own system application and have separate databases [17]. Financial information system of State University of Legal Entity has been considered less flexible and feared will hamper the progress of higher education [18]. Accounting information system at Brawijaya University has not been reliable, because there are income of university which is too late to be reported [19].

One of the factors that affect the quality of accounting information system is environmental uncertainty. Environmental uncertainty is a consequence of how many environmental factors affect the organization, and how quickly those factors change [20]. To overcome the effects of environmental uncertainty the organization must solve it by being more flexible and adaptive to change in the face of those external changes [21].

Information systems help organizations not only to see environmental changes, but also to react to those changes [1]. To achieve these objectives, the organizational environment is one of the organizational factors that must be considered in the planning of accounting information systems [1]. Further information systems should be flexible to accommodate environmental change [22]. Accounting information system should be able to create value for the company as an organizational solution to the challenges posed by the organization's environment [1].

Several previous research results have proven the effect of the environment on the quality of accounting information systems that the uncertainty of the organization's environment is an important factor that affects the quality of accounting information systems [23], [24], [25], [26].

Based on the background of the problem, the research questions are 1) How much influence the environmental uncertainty on the accounting information systems quality? and 2) How much influence the accounting information system quality on the accounting information quality?

2. LITERATURE REVIEW

2.1. Environmental uncertainty

Environmental uncertainty is the inability of the organization to accurately predict the effects of various aspects of the company's external environment [27]. Similar opinion, environmental uncertainty suggests that managers do not have sufficient information about the organizational environment intended to understand or predict future events [28]. Similarly, environmental uncertainty is characterized by the amount of uncertainty found in the environment, due to changes and complexity in the organizational environment that may affect the organization's objectives [29]. Based on the above opinion it can be concluded that environmental uncertainty is the inability of decision makers to predict appropriately the environmental influences of the organization, as it lacks sufficient information for decision-making, as a result of changes and complexity of the organization's environment.

Environmental uncertainty is described by 2 (two) dimensions: stability or unstability and degree of complexity [30]. Environmental uncertainty can be seen from the degree of change (dynamic or stable) and the complexity of an organization's environment [29]. There are 2 (two) dimensions of organizational environment referred to as: (1) Environmental change, and (2) Environmental complexity [31].

An environment is said to be stable if the elements of the environment do not change during a certain period of time (months or years), while the dynamic environment is when environmental elements change unpredictably [30]. The environment is said to be stable when environmental changes occur very minimal, otherwise dynamic environment if elements of the organization environment, both specific and general environment often change [29]. Furthermore, environmental change concerning the extent of conditions such environmental changes can't be predicted [31].

The environmental complexity describes the circumstances in which the organization interacts and is influenced by many elements of the external

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concluded that the accounting information system process financial data into financial information or components, interconnecting with each other to systems are said to be a collection of sub-systems. In addition, more specific accounting information systems are called a system that collects, records, stores, and processes data to generate information for decision makers. In this study, the quality of accounting information systems is examined from the characteristics: flexibility, reliability, accessibility, and system integration. Previous studies used various indicators in determining the quality of information systems, including: acceptability, availability, cohesiveness, ease of learning, effectiveness, efficiency, flexibility, reliability, robustness, ..., and visibility. Based on the phenomenon found, the accounting information system quality in this study is examined from the characteristics: integration, flexibility, and reliability. System integration is formed from new system infrastructure capable of working with the old, and new elements of the system infrastructure work together with each other. System integration is also formed from the integration of various software and network components. Furthermore, system integration is information and a separate data system connected to improve...
business processes and decision making [42]. Based on the above statements it can be said that system integration is shown by how the integration between system components, data integration, and system compatibility with other systems in data processing and produce information.

System flexibility is demonstrated by the ability of computer-based information systems to react to unexpected situations and events [36]. System flexibility can also be demonstrated by systems capable of responding to organizational changes, both small and large changes [6]. In addition the system flexibility refers to how quickly the system can change to support environmental change [43]. Based on the above explanation it can be said that the flexibility system is the ability of the system to follow the changes quickly and easy to modify.

Reliability of the system is demonstrated by the ability of the system to minimize the error rate and produce the correct and consistent output [37]. In addition, a reliable system is visible when performing pre-programmed functions, where reliable system applications can reject improper system usage, such as improper entry and data processing [4]. System reliability can also be demonstrated by the system operating completely 24 hours a day and only stopping for routine repair or maintenance [36]. Based on the above explanation can be said that the reliability is the system works correctly, able to minimize errors, and operate full time.

2.3. Accounting information quality

The quality of accounting information is the level or degree of accounting information generated that is measured by characteristic characteristics: content, form, and time that provide value to the end user [7]. Information Quality is the degree of information described by different groups of characteristics into categories of time, content and form [36]. Then quality of information is effective information, which is useful information to make a decision [8]. Thus it can be said that the quality of accounting information is the degree of information used for decision making.

The quality of information generated by the accounting information system has characteristics: relevance, accuracy, timeliness and completeness [44]. In addition, an effective information system produces information that has the characteristics: accurate, timely, and relevant [1]. Then an information becomes more valuable to the organization because it has the characteristics: accessible, accurate, complete, relevant, reliable, timely and vériifiable [34]. In addition Quality of usefull information has features: relevant, accuracy, timeliness, conciseness, clarity, quantifiability, and consistent [32]. The dimensions of the quality of accounting information used in this study are accurate, relevant, timely, and complete.

The dimensions of the quality of accounting information used in the study are accurate, relevant, timely, and complete.

3. FRAMEWORK AND HYPOTHESIS

3.1. The influence of environmental uncertainty on accounting information system quality

Environmental uncertainty is a major factor affecting the use of accounting information systems by managers [28]. The same thing is said that the external environment of the organization affects the information system used by the organization [1]. The external environment has a very strong influence on the accounting information system, while the information system has little ability to change the environment [10]. In addition the business environment and corporate character greatly contribute to accounting information systems that are specifically designed to meet the needs of the company [32].

Environmental uncertainty arises because of changes and complexity of the organization's environment. This environmental change is indicated to occur in elements, such as: economic conditions [2], technology [28], and socio-political environment [30]. Complex environments give rise to a greater need to gather information to be used to respond to such complexity [30]. Then environmental complexity will encourage the organization to have the ability to process and understand the vast amount of such information [31]. Accounting information systems can be used to increase the amount of information about the environment available for decision making [31]. Organizational environment is therefore one of the factors that the organization should consider in planning an accounting information system [1].

Several previous studies have proven the role of environmental uncertainty about the quality of accounting information systems of an organization. That environmental uncertainty is an important driver for the use of strategic information system planning practices [45]. The accounting information system designer explicitly
considers the characteristics of the external environment as an integral component [25]. Environmental stress has a positive correlation with the implementation of Computer Based Information Systems / Business Process Reengineering Projects in USA based organizations [26]. Furthermore the use of accounting information systems becomes more effective by identifying the external environment of the organization [23].

3.2. The influence of accounting information system quality on accounting information quality.

The accounting information system aims to generate accounting information for internal and external users [32]. Accounting information system collects the data and converts it into important quality information [8]. In addition, accounting information systems help improve the quality of decision making by providing accurate and timely information [3]. Similarly the quality of the information system considers the accuracy and timeliness of the information generated and the ease of use [1].

Several previous studies have proven the role of accounting information systems quality to produce accounting information quality. The results of study in Iran show that accounting information systems affects the quality of information [46]. The results showed that the accounting information system has implications for the quality of accounting information [47]. Study results in Jordan conclude the impact of the existence of accounting information systems on the quality of financial statements submitted to the government in Jordan [9].

The results of research on Islamic banks in Jordan show that accounting information systems help users get timely information [10]. Research on the implementation of accounting information system in hospitals in Riau Province, Indonesia concluded the magnitude of the effect of accounting information systems on the accounting information quality generated [48]. Other research results conducted at universities in Bandung, Indonesia concluded that the accounting information systems quality affect the accounting information quality [49].

4. HYPOTHESIS

Based on the above framework can be concluded research hypothesis, as follows:
1) Environmental uncertainty influences the accounting information systems quality.
2) Accounting information systems quality influences the accounting information quality.

5. RESEARCH METODOLOGY

This research uses descriptive and verificative research methods that are intended to prove the phenomena and research hypothesis. Descriptive method is used to describe data collected about the characteristics of the events, persons or situations under study [50]. The descriptive method is also intended to collect information about existing conditions with a view to describing a natural event [51]. Thus the descriptive method in this study describes the real conditions about the influence of variable environmental uncertainty, the quality of accounting information systems and the quality of accounting information. While the verification method is intended to test the hypothesis derived from the theory [52]. In addition verification theory focuses on how to test the hypothesis up to a certain level of trust [53]. Thus, this study will examine the conclusions of the theory as stated in the research hypothesis with the facts in the field.

The population of this study is all units of finance on higher education accredited in Java, with the target population of 238 higher education accredited. Questionnaires were distributed to 543
respondents for 155 unit of finance on higher education accredited selected using stratified random sampling technique. 104 units of finance on higher education returned the questionnaire with the number of respondents a total of 325 respondents.

Respondents of this study are those responsible for the preparation of financial statements: staff of financial reporting, head of subdivision, head of accountancy / finance and / or bureau of finance. Characteristics of respondents are described by job position / position, level of formal education and work experience (table 1).

Table1. Respondent Characteristics

<table>
<thead>
<tr>
<th>Description</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manager/Head of Section</td>
<td>115</td>
<td>35.38</td>
</tr>
<tr>
<td>Head of Subsection</td>
<td>75</td>
<td>23.08</td>
</tr>
<tr>
<td>Accounting Staff</td>
<td>135</td>
<td>41.54</td>
</tr>
<tr>
<td>Total</td>
<td>325</td>
<td>100.00</td>
</tr>
<tr>
<td>Education level:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High School</td>
<td>27</td>
<td>8.31</td>
</tr>
<tr>
<td>College</td>
<td>28</td>
<td>8.62</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>176</td>
<td>54.15</td>
</tr>
<tr>
<td>Graduate</td>
<td>87</td>
<td>26.77</td>
</tr>
</tbody>
</table>

The questionnaire was constructed using a likert scale model, giving 5 answer choices for each question. The collected data was processed by using SPSS analysis tool for descriptive analysis and structural equation modeling (SEM) based on Partial Least Square (PLS) for hypothesis testing.

Based on the theoretical framework constructed above, we can illustrate the overall path model (figure 2). The measurement model is reflective, either at the first order or in the second order for all latent variables. The structural model describes the model of influence of environmental uncertainty on the accounting information systems quality and their impact on the accounting information quality.

![Figure 2: Overall Path Model](image)

6. RESULT AND DISCUSSION

6.1. The Result of the Study

6.1.1. descriptive analysis

The average answers from each respondent for each indicator can be seen in table 2. The mean of the answers for each question indicates...
"enough" criteria, except for AISQ2 items (ease of system modification) and AISQ8 (inter-system integration) not good. Then for the quality of accounting information shows there are 4 (four) of indicators enter the category of "good", and 4 (four) of other indicators into the category "enough". Respondents' answers about the quality of accounting information systems on higher education accredited in Java successfully describes the phenomenon of accounting information system that occurred at several universities, as revealed in the introduction of this study.

Table 2. Descriptive Statistics of Variables

<table>
<thead>
<tr>
<th>Variable and Dimension</th>
<th>Indicator Code</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Uncertainty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stable-dynamics</td>
<td>EU1</td>
<td>1.00</td>
<td>4.00</td>
<td>2.1747</td>
<td>.64534</td>
<td>Not good</td>
</tr>
<tr>
<td>Environmental</td>
<td>EU2</td>
<td>1.00</td>
<td>5.00</td>
<td>2.5008</td>
<td>.80036</td>
<td>Not good</td>
</tr>
<tr>
<td>Simple-complex</td>
<td>EU3</td>
<td>1.00</td>
<td>5.00</td>
<td>2.4311</td>
<td>.88325</td>
<td>Not good</td>
</tr>
<tr>
<td>Environmental</td>
<td>EU4</td>
<td>1.00</td>
<td>5.00</td>
<td>2.4431</td>
<td>.79806</td>
<td>Not good</td>
</tr>
<tr>
<td></td>
<td>EU5</td>
<td>1.00</td>
<td>5.00</td>
<td>2.7660</td>
<td>.86158</td>
<td>Not good</td>
</tr>
<tr>
<td></td>
<td>EU6</td>
<td>1.00</td>
<td>5.00</td>
<td>2.6643</td>
<td>.77284</td>
<td>Not good</td>
</tr>
<tr>
<td>Accounting Information System Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexibility</td>
<td>AISQ1</td>
<td>1.50</td>
<td>5.00</td>
<td>3.4207</td>
<td>.73830</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AISQ2</td>
<td>1.00</td>
<td>5.00</td>
<td>2.9327</td>
<td>.99663</td>
<td>enough</td>
</tr>
<tr>
<td>Reliability</td>
<td>AISQ3</td>
<td>1.00</td>
<td>5.00</td>
<td>3.6162</td>
<td>1.23075</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AISQ4</td>
<td>2.25</td>
<td>5.00</td>
<td>3.9583</td>
<td>.63783</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AISQ5</td>
<td>2.00</td>
<td>5.00</td>
<td>3.6282</td>
<td>.57594</td>
<td>enough</td>
</tr>
<tr>
<td>Integration</td>
<td>AISQ6</td>
<td>2.00</td>
<td>5.00</td>
<td>3.6715</td>
<td>.67569</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AISQ7</td>
<td>1.00</td>
<td>5.00</td>
<td>3.1763</td>
<td>1.04027</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AISQ8</td>
<td>1.00</td>
<td>5.00</td>
<td>2.9071</td>
<td>1.00002</td>
<td>Not good</td>
</tr>
<tr>
<td>Accounting Information Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accurate</td>
<td>AIQ1</td>
<td>2.50</td>
<td>5.00</td>
<td>4.20</td>
<td>.61407</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>AIQ2</td>
<td>2.00</td>
<td>5.00</td>
<td>4.04</td>
<td>.61554</td>
<td>Good</td>
</tr>
<tr>
<td>Relevant</td>
<td>AIQ3</td>
<td>2.50</td>
<td>5.00</td>
<td>3.83</td>
<td>.60366</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AIQ4</td>
<td>3.00</td>
<td>5.00</td>
<td>3.84</td>
<td>.55398</td>
<td>enough</td>
</tr>
<tr>
<td>Timelines</td>
<td>AIQ5</td>
<td>2.00</td>
<td>5.00</td>
<td>3.72</td>
<td>.63659</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AIQ6</td>
<td>2.00</td>
<td>5.00</td>
<td>4.19</td>
<td>.79860</td>
<td>Good</td>
</tr>
<tr>
<td>Complete</td>
<td>AIQ7</td>
<td>2.25</td>
<td>5.00</td>
<td>3.66</td>
<td>.63889</td>
<td>enough</td>
</tr>
<tr>
<td></td>
<td>AIQ8</td>
<td>2.67</td>
<td>5.00</td>
<td>4.46</td>
<td>.65863</td>
<td>Good</td>
</tr>
</tbody>
</table>

6.1.2. verificative analysis

1) Evaluation of measurement model

Evaluation of the measurement model is used to assess the validity and reliability of indicators of measurement variables. Test validity is intended to determine the feasibility of an instrument to measure respondents' answers [49].

The result of evaluation of measurement model through convergent validity shows that the outer loading of each indicator of environmental uncertainty variable, the quality of accounting information system and the quality of accounting information has a value> 0.5 (see outer loading on path model, Figure 2). AVE shows a value of ≥ 0.5 (table 4). In addition, discrimin validity indicates that 1) an outside construction load indicator of environmental uncertainty, the quality of the accounting information system and the quality of accounting information is greater than cross-loads with other constructs. 2) the square root value of the construct of environmental uncertainty, the quality of the accounting information system and
the quality of accounting information is higher than the correlation with other constructs. Based on the evaluation of the above measurement model, it can be concluded that the measurement model is valid. In other words, the measurement indicators of environmental uncertainty, accounting information system quality, and accounting information quality are capable of measuring the constructs. The reliability test shows the consistency of a measuring instrument to measure the concept being measured [49]. Based on evaluation of measurement model through internal consistency reliability, the value of composite reliability is more than 0.708. Thus it can be concluded that the environmental uncertainty variable, accounting information system quality, and accounting information quality meet the criteria reliable.

2) Evaluation of Structural Model

Table 3. Evaluation of Structural Models

|       | Original Sample (O) | Standard Error (STERR) | T Statistics (|O/STERR|) | R Square |
|-------|---------------------|------------------------|-----------------|----------|
| EU -> AISQ | -0.640            | 0.0593                 | 10.801          | 0.41     |
| AISQ -> AIQ | 0.606             | 0.0698                 | 8.678           | 0.37     |

b) Test of Hypothesis

Hypothesis testing is intended to determine the influence of environmental uncertainty on accounting information system quality, and the influence of accounting information system quality against accounting information quality.

(1) The statistic hypothesis of environmental uncertainty influence on accounting information system quality is:

H₀ = there is no environmental uncertainty influence on accounting information system quality.

H₁ = there is environmental uncertainty influence on accounting information system quality.

The structural model evaluation yielded a coefficient value of -0.64039 (see table 3). These results indicate that environmental uncertainty is inversely related to accounting information system quality. While the result of the statistic t value of 10.80142>1.96 shows the results of this study reject H₀ and receive H₁. Thus it can be concluded that environmental uncertainty has a significant influence on the quality of accounting information systems.

(2) The statistical hypothesis of accounting information system quality influence on accounting information quality is:

H₀ = there is no effect of accounting information system quality against accounting information quality.

H₁ = there is influence of accounting information system quality against accounting information quality.

The structural model evaluation yielded the path coefficient value of 0.60556 (see table 3). These results indicate that accounting information system quality is directly related to accounting information quality. While the statistic t value of 8.677886>1.96 shows that the results of this study reject H₀ and receive H₁. Thus it can be concluded that accounting information system quality has a significant influence on accounting information quality.

6.2. The Results Discussion

This research empirically succeeds in proving the influence of environmental uncertainty on accounting information system quality. This result is indicated by a statistic t value greater than the critical value. This study also found an inverse
relationship of environmental uncertainty with accounting information system quality, where any increase in environmental uncertainty would decrease accounting information system quality, as indicated by the value of the path of coefficients. Furthermore, the results of study describes that the ability or role of environmental uncertainty in explaining accounting information system quality through R square value of 0.410.

The results of this study confirm the opinions of experts as stated in the framework of thinking that the external environment of the organization affects the information systems used by organizations [1], that the business environment has a major contribution to accounting information systems designed specifically to meet organizational needs [32], and that the external environment has a very strong influence on accounting information system [14].

The results of this study reinforce the results of previous research, which states that the accounting information system more effectively used by identifying the external environment of the organization [23]. But the results of this study are not in line with the results where environmental stress is positively correlated with the implementation of computer-based information systems [26].

The quality of an accredited college accounting information system is shown by the dimensions that reflect it. The dimension of system integration provides the most dominant role to describe the quality of accounting information systems, followed by system reliability and system flexibility. Field empirical facts show that the system is not flexible, the system is not reliable and the system has not been integrated. Empirical facts of this field at once prove the phenomenon that appears in the real world and the basis of this research problem.

The loading factor results show that the complex environment plays a major role in determining the environmental uncertainty variable. The inability of managers or decision makers to capture information and predict the environmental impact of environmental complexity is indicated by the indicators. Empirical facts show that managers or decision makers have not been able to capture information or predict the diversity of consumers (students, professors, etc.) and suppliers associated with higher education organizations, yet can predict the various products produced for different customer groups to be accommodated in the accounting information system. Empirical facts of research also indicate that managers or decision makers have not been able to capture information about the environment resulting from existing accounting information systems.

The role of a stable-dynamic environment for determining the environmental uncertainty variable can be seen from the loading factor of the indicator. The inability of managers or decision makers to capture information and predict the environmental impact of a dynamic-dynamic environment (change) is indicated by indicators of technological change and socio-political change through changes in legislation. Empirical facts of research indicate that managers or decision makers have not been able to predict technological changes that are useful to improve the ability of accounting information systems. Empirical facts also indicate that managers have not been able to predict well the changes in legislation to be accommodated in the accounting information system.

The results of empirical studies have proved the effect of accounting information system quality on accounting information quality. This result is indicated by a statistic t value greater than the critical value. The results of this study also found a straightforward relationship of accounting information system quality with accounting information quality, whereby any increase in accounting information system quality will improve accounting information quality. In addition, this research is able to illustrate that the ability or role of accounting information system quality in explaining accounting information quality through R square value is 0.370.

The results of this study support the opinion that accounting information systems produce quality information [8], that quality accounting information systems will produce accurate and timely information [3], and that the quality of accounting information systems will result information that considers the accuracy and timeliness of the information [1]. The empirical research reinforces the results of previous research that the quality of accounting information systems affect the quality of accounting information [9], [10], [46], [47], [48], [49].

7. CONCLUSION

Based on the results of research and discussion above can be concluded that the environmental uncertainty affect the quality of accounting information systems. The low quality of accounting information systems at accredited universities in Java is caused by the inability of
accounting information systems to adapt to environmental changes and accommodate environmental complexity, through the inability of managers to capture information about changes and complexity of the organization's environment, and impact on the quality of accounting information.

The result of this research is able to answer the problem of research which arise based on phenomenon, where the quality of accounting information system can be improved by increasing the ease of accounting information system to adjust to environmental change and accommodate environmental complexity.

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