



Factors Affecting Systems Thinking Management: Educational Administration, Educational Organization and Educational Leadership

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Abstract: The Influence of Educational Administration, Educational Organization and Educational Leadership on Systems Thinking Management is a scientific article of literature study within the scope of the field of science. **The purpose** of this article is to build a hypothesis of influence between variables that will be used in future research. **Research objects** in online libraries, Google Scholar, Mendeley and other academic online media. **Research methods** with research libraries are sourced from e-books and open access e-journals. Qualitative descriptive analysis. **The results of this article:** 1) Educational Administration influences Management Thinking Systems; 2) Educational organizations influence Management Thinking Systems; and 3) Educational Leadership influences Systems Thinking Management.

Keyword: Management thinking systems, Educational Administration and educational leadership

INTRODUCTION

Background of the Problem.

Thinking is one of the advantages given by Allah swt to humans, so that if we refer to the Qur'an, there are many verses that discuss and instruct humans to be able to use their minds, both with straightforward language and with kinayah language that indicates this (M. Ismail. 2014).

If you pay attention to humans in their lives, they can hardly escape from thinking. Every heartbeat and inhalation and exhalation, always accompanied by the process of thinking. In the Qur'an God also mentions that humans are creatures that have reason, so that with this reason used to think, as mentioned in surah al-ghosiyah verse 17:

Meaning: Then do they not notice the camel how he was created?

Systems thinking can lead us to enter a transition in seeing problems from not just seeing components, but also being able to see relationships between components, then seeing interconnected relationships, to finally seeing interdependent relationships between components. This ability allows humans to understand problems better, and a better understanding can open up opportunities for better solutions as well (Darwisyah Darwisyah, Kemas Imron Rosadi, and Hapzi Ali. 2020).

Quality education is the key to building a highly competitive society. To achieve this goal, it is important to have good and effective systems thinking management in education. Through system thinking management, education administration, education organization and education leadership are very important, because system thinking is the basic framework used to organize and manage the education process (Achmad Fauzi and Kemas Imron Rosadi. 2022).

Based on the background, the purpose of writing this article is to build hypotheses for further research, namely, to formulate: 1) Does Educational Administration affect the management thinking system. 2) Does education organization affect system thinking management? 3) Does educational leadership affect systems think management.

METHODS

The method of writing this Literature Review article is with a Descriptive Qualitative method and Literature review or Library Research, sourced from the online application Google Scholar, Mendeley and other online academic applications.

In qualitative research, literature review must be used consistently with methodological assumptions. This means that it must be used inductively so that it does not direct the questions asked by the researcher. One of the main reasons for conducting qualitative research is that the research is exploratory, (Ali, H., & Limakrisna, 2013).

The first step in this research is to conduct a comprehensive literature study. By looking for relevant literature and references on systems thinking management, the factors that influence it, and its implementation in educational organizations and leadership. Sources that can be used include books, academic journals, articles, research reports, and trusted online resources.

RESULT AND DISCUSSION

Result

Based on the background, objectives and methods, the results of this article are as follows:

Factors influencing system thinking management.

According to Hidayatno, thinking, namely as a mental activity in an effort to gain knowledge. Therefore, thinking is a cognitive process that cannot be seen physically. The results of thinking are abstract in the form of ideas, knowledge, procedures, arguments, and decisions. (A. Hidayatno, 2016)

According to Banathy, he said that system theory is an organized expression of a series of various interrelated concepts and principles that apply to all systems. (B. H. Banathy, 2013)

Meanwhile, Salamun emphasized that the system is a set of elements related to one another which form certain functions. (Salamun, 2017)

Dimensions, indicators, syntheses or factors that influence system thinking management are a person's perspective or mindset, habits of thinking and response to a problem.

The factors that influence system thinking management have been studied by many previous researchers including (H. Rohmadi, 2018), (Bungsu and Rosadi, 2020), and (Fauzi and Rosadi, 2022).

Education Administration

Administration is the activity of a group of people through stages that are organized and led effectively and efficiently, using the means needed to achieve the desired goals. Administration is also a job done by an administrator. Administrators are people who manage and lead an organization. Meanwhile, an organization is simply a process of cooperation between two or more people governed by certain rules to achieve a goal (M. Hilal Mahmud, 2015).

In its implementation, administration develops and has tasks commonly referred to as administrative functions, namely a process of carrying out a series of activities carried out by two or more people involved in a form of joint effort in order to achieve predetermined goals. (Amka, 2021)

Dimensions, indicators, synthesis, or factors that influence educational administration, namely aspects of cooperation, administrative management, and system frameworks.

This educational administration has been studied by many previous researchers including (Sri Marmoah, 2016), (Helma Hidayati, 2022) and (Muhammad Fahrul Razi, 2022).

Education Organization

The word "organization" comes from English, namely organization, which means organization or things that organize. The word "organization" etymologically comes from Latin, namely "organum" which means "tool". While in English "organize" "namely organizing" by showing action or effort to achieve a goal. (Bushe, G. R and Marshak, 2009)

Organization is a systematic combination of interrelated parts to form a unified whole regarding authority, coordination, and supervision to achieve predetermined goals. (M. Fakhrudin, Rusydi Ananda, and Siti Istiningsih, 2013)

Dimensions, indicators, synthesis, or factors that have an impact on the organization of education are overcoming the limitations of ability, a place to develop potential and a place to develop knowledge.

This educational organization has been widely researched by previous researchers including (Siti Nurjanah, 2015), (Fory Armin Naway, Layout Designer, and Dede Yusuf, 2017) and (Muhammad Hidayat Yusuf, 2017).

Educational Leadership

Leadership is a science that systematically studies the process and results of the act of leading, which depends on the nature and behavior of the leader, people's interpretation of the leader's character, and the attributes people give to the results of leadership (Gieseke, T. M, 2020).

Educational leadership is an important aspect in achieving progress and success in the education system. An educational leader has a crucial role in directing, inspiring and managing the entire learning process in schools. Leadership is the process by which an individual influences a group of individuals to achieve a common goal. (Northouse, P. G, 2016).

Educational leadership has been studied by many previous researchers including (Fauziah Nasution, Fitriani Pramita Gurning, and Eliska Eliska, 2020), (Karine Rizkita and Achmad Supriyanto, 2020), and (Awang Saputra, Agus Gunawan, and Muhamad Fauzi, 2022).

Results of Review of Relevant Articles

Reviewing relevant articles as a basis for determining research hypotheses by explaining the results of previous studies, explaining the similarities and differences with the research plan, from relevant previous studies such as table 1 below.

Table 1: Relevant Research Results

No	Author (Year)	Previous Research Results	Similarities with this article	Differences with this article	H
1	Amka (2021)	Educational administration and school management have a positive and significant effect on management thinking systems	Education Administration influences system thinking management	School management influences system thinking management	H1
2	Sri Marmoah (2016)	Educational administration and supervision have a positive and significant effect on management thinking systems.	Education Administration influences management thinking system	Education supervision affects management thinking system	H1
3	Naway (2017)	Educational organization and communication have a positive and significant effect on management thinking system.	Education organization influences management thinking system	Communication affects system thinking management	H2
4	Fahmi (2022)	Educational organization and leadership have a positive and significant effect on management thinking system.	Education organization influences system thinking management	Leadership influences system thinking management	H2
5	Nasution (2020)	Educational leadership and systems thinking have a positive and significant effect on systems thinking management.	Educational leadership influences system thinking management	Systems thinking affects systems thinking management	H3
6	Rizkita (2020)	Educational leadership and comparative quality of education have a positive and significant effect on the management thinking system.	Educational leadership influences system thinking management	Comparative quality of education influences management system thinking	H3

Discussion

Based on the theoretical study, the discussion of this literature review article is to review relevant articles, analyze the influence between variables and make a conceptual thinking research plan:

Based on the research results, the discussion of this article is to review relevant articles, analyze the influence between variables and make a conceptual thinking research plan:

The influence of educational administration on systems thinking management

Educational administration has a significant influence on systems thinking management in the context of education. Here are some of the influences of educational administration on systems thinking management: 1) Implementation of System-Oriented Policies 2) Provision of Supportive Resources and Technology 3) Training and Development 4) Encouraging Collaboration and Open Communication 5) Evaluation and Continuous Improvement.

Educational administration affects systems thinking management, if educational administration is perceived well then systems thinking management will be perceived well and vice versa. That with the influence of educational administration, which includes implementing system-oriented policies, providing resources, training and development, encouraging

collaboration, and continuous evaluation, systems thinking management can be integrated more effectively in daily activities in the educational environment.

The factors that influence education administration are education management and supervision. To improve systems thinking management with respect to educational administration, management should implement system-oriented policies, provide supportive resources and technology, provide training and development, encourage collaboration and open communication, and provide continuous evaluation and improvement.

Educational administration affects system thinking management, this is in line with research conducted by: (Amka, 2021), (Sri Marmoah, 2016), (Helma Hidayati, 2022) and (Muhammad Fahrul Razi, 2022).

Influence of Education organization on system thinking management

Educational organizations have a significant influence on systems thinking management. Here are some of the influences of educational organizations on systems thinking management: 1) Collaborative Culture 2) Integrated Organizational Structure 3) Organizational Learning 4) Use of Systems Approach in Planning and Decision Making.

Factors that affect educational organizations are communication and leadership. To improve system thinking management with regard to educational organizations, what management must do is to influence collaborative culture, integrated organizational structure, organizational learning, and the use of a systems approach in planning and decision making, system thinking management can be integrated more effectively in educational organizations. Educational organizations affect system thinking management, this is in line with research conducted by: (Naway, 2017), (Fahmi, 2022), (Siti Nurjanah, 2015), (Fory Armin Naway, Placers, and Dede Yusuf, 2017) and (Muhammad Hidayat Yusuf, 2017).

The influence of educational leadership on management

Effective educational leadership has a significant influence on systems thinking management in educational settings. Good educational leadership can shape an organizational culture and structure that supports the development of systems thinking among its stakeholders. Here are some of the influences of educational leadership on systems thinking management: 1) Building Vision and Mission 2) Facilitating Collaboration 3) Promoting Continuous Learning 4) Implementing a Systemic Approach 5) Communicating and Sharing Knowledge 6) Developing Systems Thinking Skills.

Systems thinking management is an approach that involves understanding the relationships between elements in the system, as well as their impact on the whole system. In the context of education, systems thinking management involves understanding how the various components of education, such as curriculum, teaching, assessment and resource management, are interrelated and influence each other.

Educational leadership affects system thinking management, if educational leadership is perceived well then system thinking management will be perceived well too, and vice versa. It can be explained that with effective educational leadership, systems thinking management can be improved and better applied in the educational context. This results in the development of a strong systems thinking culture in educational institutions and enables the application of systems principles in decision-making, planning and implementation of educational activities. Educational leadership plays a role in systems thinking management, this is in line with research conducted by: (Nasution, 2020), (Rizkita, 2020), (Karine Rizkita and Achmad Supriyanto, 2020), and (Awang Saputra, Agus Gunawan, and Muhamad Fauzi, 2022).

Conceptual Framework

Based on the formulation of the problem, discussion and relevant research, the conceptual framework of this article is as shown in Figure 1 below.

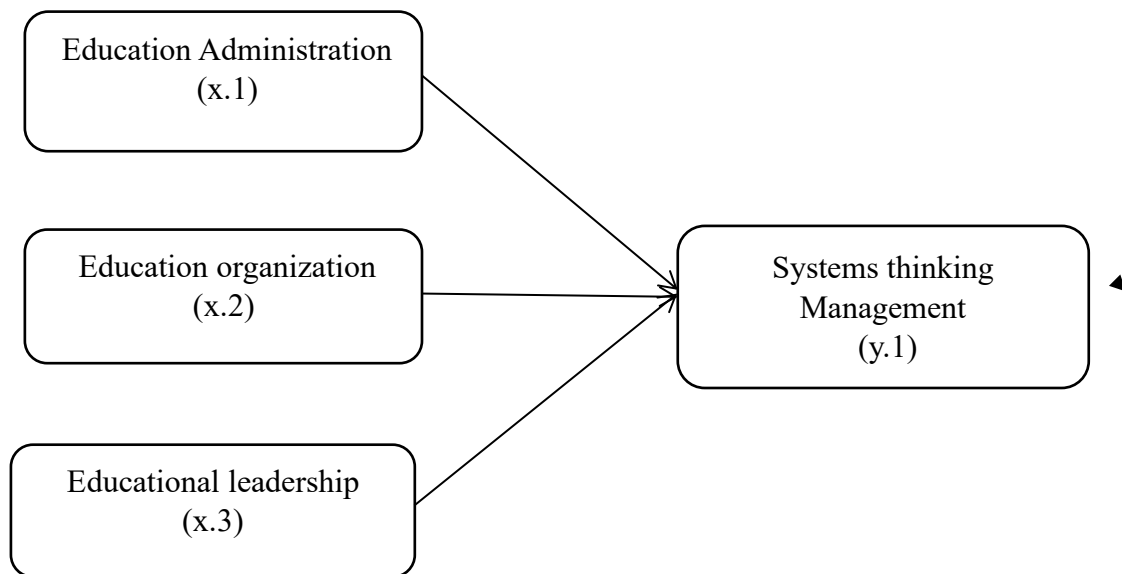


Figure 1: Conceptual Framework

Based on the conceptual framework above, then: Educational administration, educational organization, and educational leadership affect systems thinking management. Apart from the three exogenous variables that affect which, there are still many other variables, including:

- 1) Education supervision: (Sri Marmoah, 2016), (Helma Hidayati, 2022) dan (Muhammad Fahrul Razi, 2022).
- 2) Communication: (Naway, 2017), (Siti Nurjanah, 2015), dan (Muhammad Hidayat Yusuf, 2017).
- 3) Comparison of education quality: (Rizkita, 2020), (Fauziah Nasution, Fitriani Pramita Gurning, and Eliska Eliska, 2020), dan (Awang Saputra, Agus Gunawan, and Muhamad Fauzi, 2022).

CONCLUSIONS

Based on the objectives, results and discussion, the conclusion of this article is to formulate hypotheses for future research, namely: 1) Education Administration affects Systems Thinking Management 2) Educational Organization affects Systems Thinking Management. and 3) Educational Leadership affects Systems Thinking Management.

REFERENCES

Ali, H., & Limakrisna, N. (2013). Metodologi Penelitian (Petunjuk Praktis Untuk Pemecahan Masalah Bisnis, Penyusunan Skripsi (Doctoral dissertation, Tesis, dan Disertasi. In *In Deppublish: Yogyakarta*.

Amka, Amka. "Manajemen Dan Administrasi Sekolah." Nizamia Learning Center, 2021.

Ballesteros, G. A., and Gil, D. M. *Systems Thinking and Educational Administration: Exploring the Relationship between Mental Models and Organizational Learning. Educational Management Administration & Leadership*, 2015.

Bungsu, Rajo, and Kemas Imron Rosadi. "Faktor Yang Mempengaruhi Berpikir Sistem: Aspek Internal Dan Eksternal." *Jurnal Ekonomi Manajemen Sistem Informasi* 2, no. 2 (2020).

- Bushe, G. R and Marshak, R. J. *Revisioning Organizational Development: Diagnostic and Dialogic Premises and Patterns of Practice. The Journal of Applied Behavioral Science*, 2009.
- Darwisyah, Darwisyah, Kemas Imron Rosadi, and Hapzi Ali. "Berfikir Kesisteman Dalam Perencanaan Dan Pengembangan Pendidikan Islam." *Jurnal Manajemen Pendidikan Dan Ilmu Sosial 2*, no. 1 (2020): 225–37.
- Fahmi, Ade Ismail, Akbar Avicenna, Dina Chamidah, Farahdiba Thahura, Hani Subakti, H. Cecep, Joko Krismanto Harianja, Karwanto Karwanto, Nur Agus Salim, and Rahman Tanjung. "Kepemimpinan Dan Perilaku Organisasi Pendidikan," 2022.
- Fakhrudin, M., Rusydi Ananda, and Siti Istiningsih. "Perubahan Paradigma Dalam Organisasi Belajar Di Abad 21." *Perspektif Ilmu Pendidikan 27*, no. 2 (2013): 110–17.
- Fauzi, Achmad, and Kemas Imron Rosadi. "Faktor-Faktor Yang Mempengaruhi Paradigma Berpikir Kesisteman Dalam Pendidikan Islam: Globalisasi, Manajemen Lembaga Dan Mutu Pendidikan." *Jurnal Ilmu Hukum, Humaniora Dan Politik 2*, no. 2 (2022): 183–97.
- Hapudin, H. Muhammad Soleh, Ir AriefKusuma Among Praja, and MBA ST. *Kepemimpinan Pendidikan: Konsep Dan Strategi Peningkatan Mutu Pendidikan*. Penerbit Andi, 2023.
- Hidayati, Helma, Nadila Yuliyanti, and Yudya Ananda. "Peran Administrasi Pendidikan Dan Dasar Perencanaan Dalam Meningkatkan Kualitas Pembelajaran." *Tugas Mata Kuliah Mahasiswa*, 2022, 89–101.
- Hilal Mahmud, M. M. *Administrasi Pendidikan (Menuju Sekolah Efektif)*. Penerbit Aksara TIMUR, 2015.
- Marmoah, Sri. *Administrasi Dan Supervisi Pendidikan Teori Dan Praktek*. Deepublish, 2016.
- Nasution, Fauziah, Fitriani Pramita Gurning, and Eliska Eliska. "Kepemimpinan Dan Berpikir Sistem," 2020.
- Naway, Fory Armin, Penata Letak, and Dede Yusuf. "Komunikasi Dan Organisasi Pendidikan." *Gorontalo: Ideas Publishing*, 2017.
- Nurjanah, Siti. "Peranan Manajemen Inovasi Dalam Meningkatkan Kinerja Organisasi Pendidikan." In *Conference In Business, Accounting, And Management (CBAM)*, 2:27–33, 2015.
- Razi, Muhammad Fahrul. "Konsep Dasar Manajemen Dan Administrasi Sekolah." *Artikel Mahasiswa*, 2022, 216–28.
- Rizkita, Karine, and Achmad Supriyanto. "Komparasi Kepemimpinan Pendidikan Di Indonesia Dan Malaysia Dalam Upaya Peningkatan Mutu Pendidikan." *Jurnal Akuntabilitas Manajemen Pendidikan 8*, no. 2 (2020): 155–64.
- Saputra, Awang, Agus Gunawan, and Muhamad Fauzi. "MODEL KEPEMIMPINAN BERPIKIR SISTEM PRASEKOLAH ISLAM SWASTA." *JIEBAR: Journal of Islamic Education: Basic and Applied Research 3*, no. 1 (2022): 44–63.
- Yusuf, Muhammad Hidayat. "Pengembangan Budaya Organisasi Dalam Lembaga Pendidikan." *Tarbawi: Jurnal Pendidikan Islam 14*, no. 1 (2017).