

INFORMATION TECHNOLOGY PERSPECTIVE OF QS. AL-JATSIYAH VERSE 13

Azmy Ali Muchtar¹, H.M.Ali Muchtar²

Universitas Islam Jakarta, MTs Nur-Attaqwa

azmyali93@gmail.com

Abstrak:

Globalisasi merupakan salah satu hasil dari kemajuan teknologi. Banyaknya informasi yang masuk berdampak negatif bagi masyarakat. Disinilah peran agama menjadi sangat penting dalam mengatur dan mengontrol sikap dan perilaku umatnya agar tidak terjerumus pada hal-hal negatif. Kemajuan teknologi yang tidak dilandasi dan tidak dibarengi dengan agama akan sia-sia, bahkan bisa menjadi bumerang yang bisa menyerang balik. Pada dasarnya Islam dengan segala ajaran dan nilai-nilai luhurnya merupakan komponen yang sangat penting sebagai penyeimbang kemajuan teknologi. Maka ajaran dan nilai-nilai luhur tersebut harus ditanamkan kepada anak bangsa sejak dini. Salah satu caranya adalah dengan selalu mengimplementasikan pendidikan Islam di sekolah dan masyarakat. Tujuan penulisan artikel ini adalah untuk mengetahui bagaimana QS. Perspektif Al-Jatsiyah tentang teknologi informasi, bagaimana seharusnya teknologi informasi digunakan dalam dunia Pendidikan Islam dan untuk mengetahui dalil-dalil lain dalam Al-Qur'an dan Hadist terkait dengan teknologi informasi. Hasil dari artikel ini adalah Firman Allah dalam surah Al-Jatsiyah Ayat 13 kalimat "mata pelajaran" merupakan terminologi dimana Allah SWT memerintahkan manusia untuk memperhatikan alam semesta, Allah juga memerintahkan manusia untuk membaca dan meneliti. Perintah-perintah inilah yang ketika diterapkan akan menghasilkan teknologi, Allah sejak awal menyatakan Sakhoro LAKum, Allah memerintahkan hamba-Nya untuk mempelajari dan melakukan penelitian terhadap teknologi yang ada. Menurut Islam, tata cara penggunaan media sosial dan media berbasis elektronik lainnya yang baik antara lain: meluruskan niat, mencegah kemungkaran dan menyebarkan kebaikan serta tidak menyebarkan kebencian dan tidak menghina orang lain.

Kata Kunci: Teknologi Informasi, Perspektif Qs. Al-Jatsiah Ayat 13

Abstract:

Globalization is one result of technological progress. The amount of incoming information has a negative impact on society. This is where the role of religion becomes very important in regulating and controlling the attitudes and behavior of its people so as not to fall into negative things. Technological progress that is not based on and is not accompanied by religion will be in vain, in fact it can backfire that can strike back. Basically, Islam with all its teachings and noble values is a very important component which balances technological progress. So these noble teachings and values must be instilled in the nation's children from an early age. One way is to always implement Islamic education in schools and society. The purpose of writing this article is to find out how QS.Al-Jatsiyah's perspective on information technology, how information technology should be used in the world of Islamic Education and to find out what are the other arguments in the Al-Qur'an and Hadith related to information technology . The result of this article is the Word of God in surah Al-Jatsiyah Verse 13 the sentence "subject" is a terminology in which Allah SWT commands humans to pay attention to the universe, Allah also orders humans to read and research. It is these commands that when applied will produce technology, Allah from the beginning declared sakhoro LAKUM, Allah commands His servants to study and do research on existing technology. According to Islam, good ways to use social media and other electronic-based media include: straightening intentions, preventing bad things and spreading good things and not spreading hatred and not insulting other people.

Keywords: Information Technology, Perspectives of Qs. Al-Jatsiah Verse 13

Introduction

In Indonesia, the abundance of human resources is not comparable to the level of mastery of the latest technology that exists. What should be known is that the current rapid development of technology has brought this nation into a new era, especially in the world of Islamic education. However, the presence of the latest technology in the world of Islamic education has in fact made this nation seem unable to achieve the desired educational goals. The use of technology that is not very well mastered by the nation's children has made progress in Islamic Education creep slowly. This is evidenced by the large number of schools or educational institutions that have not been able to create a good, comfortable and

enjoyable learning environment for students due to the lack of use of technology which actually makes things easier. Limited facilities and infrastructure, internet network, etc. are also one of the reasons for the lack of progress in education in this country¹.

Globalization is one result of technological progress. The amount of incoming information has a negative impact on society. This is where the role of religion becomes very important in regulating and controlling the attitudes and behavior of the people so they don't fall into negative things. Technological progress that is not based on and is not accompanied by religion will be useless, in fact it can backfire and can strike back².

Basically, Islam with all its teachings and noble values is a very important component which balances technological progress. So these noble teachings and values must be instilled in the nation's children from an early age. One way is to always implement Islamic education in schools and society. The intensification of the Knowledge about Islam movement, the many advertisements/invitations to religious life, the many religious activities such as recitation, etc., are examples of the application of Islamic education in life.

In the end, Islam must always accompany technological advances that continue to develop. Because through its teachings and noble values we can limit ourselves from the incessant globalization as a result of today's rapid technological advances. Technology that is not accompanied by Islamic education will be one of the causes of the destruction of an Islamic civilization. In fact, if technological advances can be utilized as well as possible, technology will become one of the main sources of glory and progress of a nation in the eyes of the world.

¹ Wardiana, W. *Perkembangan Teknologi Informasi di Indonesia*. 2012

² Ibid

The purpose of writing this article is to find out how the perspective of QS Al-Jatsiyah verse 13 is related to information technology, how information technology should be used in the world of Islamic Education and to find out other arguments in the Al-Qur'an and Hadith related to information technology.

Research Methods

This research is a qualitative research. Qualitative research is a research procedure that produces descriptive data in the form of written or spoken words from people and observable behavior³. This writing uses a library research method. Library research is research that uses literature as a research medium in its implementation. The procedures in this study are; First, determine the theme or topic to be studied. This study examines the concept of human education in the perspective of QS. An-Nahl verse 78. Second, look for relevant data sources. The data sources used are divided into two, primary and secondary. The primary data source is QS. An-Nahl verse 78, while secondary data was obtained from data from several scientific journals, papers, previous research results, and books that talk about similar themes.

Third, process of existing data. Fourth, analyzing, exploring, and discussing the concept of human education in the perspective of QS. An-Nahl verse 78. Fifth, concluding the discussion. As for the writing technique that the writer uses is to collect data in scientific writing as an effort to obtain relevant data using content analysis (content analysis)⁴.

Meanwhile, literature study is an activity of reading carefully to gather information from all relevant sources using an objective approach to the topic of discussion. While the content analysis writing technique, the writer

³ Sugiyono. *Metode penelitian Manajemen. Pendekatan kuantitatif, kualitatif, kombinasi, tindakan kelas dan evaluasi*. 2013

⁴ Sutopo. *Metodologi Penelitian Kualitatif*. UNS. 2006

describes the problem being studied which refers to material from existing sources, then it is examined by reading carefully all sources and analyzed based on the content discussed and then concluded into a comprehensive reading.

Results and Discussion

The Islamic religion views technology as something very important. In surah Al-Mujadalah verse 11 which means "Allah will raise those who believe among you and who have some knowledge." Islam emphasizes how noble people who are knowledgeable or who know technology are⁵. So it is a wrong thing when there are some groups who accuse Islam of being an old school religion, an outdated religion. Due to the fact, in its teachings Islam commands its people to study.

In surah Al-Jatsiyah Verse 13 the sentence "And hath made of service" is the terminology in which Allah SWT orders people to pay attention to the universe, Allah also orders people to read and research. It is these commands that when applied will produce technology, and because technology is human ability to create tools with his knowledge so that the universe is as if it is subject to humans, Allah from the beginning declared sakhrolakum, Allah commands His servants to study and conduct research on technology that exist⁶. For example, Allah subdues the heat to humans through technology, so new technologies are born that can utilize the sun's heat. Another example is the limitations of human vision, through the latest technology it can widen and broaden its view and even create telescopes that can allow humans to see celestial objects that are thousands of kilometers from the earth. It is a big mistake and far from the truth if there is a perception that Islam does not

⁵ Shihab, M. Q. *Tafsir Al Misbah Vol. 12*. 2011

⁶ Ibid

support technology and does not encourage people to use their minds to invent technology because Islamic civilization is far from ancient times, Europe is still in the realm of darkness, Islamic scholars especially those in Andalusia now Spain, they use their ingenuity to do research and produce technology and it spreads to Europe. However, in several decades, technological developments in the Islamic world spearheaded by Islamic scholars were stagnant, while in the western world technology developed rapidly so that in the end the Islamic world was left behind, which is very unfortunate because basically the first to start developing technology were Islamic scholars⁷.

وَسَحَّرَ لَكُمْ مَّا فِي السَّمٰوٰتِ وَمَا فِي الْاَرْضِ جَمِيعًا مِّنْهُ ۗ اِنَّ فِيْ ذٰلِكَ

لَآٰيٰتٍ لِّقَوْمٍ يَّتَفَكَّرُوْنَ

And hath made of service unto you whatsoever is in the heavens and whatsoever is in the earth; it is all from Him. Lo! herein verily are portents for a people who reflect (QS.Al-Jatsiyah:13)⁸.

As for in surah al-'Alaq verses 1-5, the sentence "read" is the terminology in which Allah SWT orders mankind to conduct research on technology and always learn and learn new things that are around (Shihab, 2009). So, as Muslims, we must not separate ourselves from ever-evolving technology, let alone consider it a bid'ah matter, because with the help of technology we can all face the challenges of the times and embrace the future. Without religion, the presence of technology can damage the system of religious human life.

⁷ Salam, A. *Sains dan Dunia Islam*. Perpustakaan Islam ITB. 2013

⁸ Shihab, M. Q. *Al-Qur'an dan Maknanya*. 2016

اقْرَأْ بِاسْمِ رَبِّكَ الَّذِي خَلَقَ. خَلَقَ الْإِنْسَانَ مِنْ عَلَقٍ. اقْرَأْ وَرَبُّكَ الْأَكْرَمُ.

الَّذِي عَلَّمَ بِالْقَلَمِ. عَلَّمَ الْإِنْسَانَ مَا لَمْ يَعْلَمْ.

(1) Recite in the name of your Lord who created. (2) Created man from a clinging substance. (3) Recite, and your Lord is the most Generous. (4) Who taught by the pen. (5) Taught man that which he knew not. (Shihab, 2016).

Currently is the era when Islam lost in terms of civilization, as we know, the current civilization is controlled by the civilization of capitalism and liberalism. In today's era, warfare is not only physical, but can also take the form of information and knowledge wars. Attempts to dominate the world today no longer require massive military deployments. Mastering the world can be done by creating renewable technology that can hack the opponent's information technology. So that it can be said that people/civilizations that master the latest technology and information media will be able to dominate the world easily⁹. This can be done by twisting the information facts in the media depending on the media's bias. The sophistication of information technology and media can guide humans towards the progress of civilization or towards the destruction of civilization itself depending on how it is used. As we know, information technology is currently not controlled by western nations other than Muslims, so it can be seen that Muslims are lagging behind in civilization. Previous research related to science and technology in the Qur'an was also conducted by Asep sunarko entitled Science and Technology in the Perspective of the Qur'an. As for the results of this study, namely examining the contents of Al-Alaq verses 1-5 which can explain that the

⁹ Ali Anwar Yusuf, D. *Islam dan Sains Modern, Sentuhan Islam Terhadap Berbagai Disiplin Ilmu*. Pustaka Setia. 2016

repetition of the command to read (iqra) in this first revelation, is not only to show reading ability. Reading skills are not obtained except by repeating reading, but also adding that repeating reading is to produce new knowledge and insights from what one reads. Furthermore, from this first revelation, a hint was obtained that there were two ways of storing and developing knowledge, namely by means of a pen and reading. Both are sourced from Allah SWT¹⁰.

Humans are commanded by Allah through the intermediary of his word in the Qur'an to use his mind to uncover the veil that exists in the universe and also teach how to maximize and to function together the potential bestowed by humans, namely hearing, sight, and sense of intuition, and even have to take responsibility for it¹¹.

Currently is the era when Islam lost in terms of civilization, as we know, the current civilization is controlled by the civilization of capitalism and liberalism. In today's era, warfare is not only physical, but can also take the form of information and knowledge wars. Attempts to dominate the world today no longer require massive military deployments. Mastering the world can be done by creating renewable technology that can hack the opponent's information technology¹². So that it can be said that people/civilizations that master the latest technology and information media will be able to dominate the world easily. This can be done by twisting the information facts in the media depending on the media's bias. The sophistication of information technology and media can guide humans towards the progress of civilization or towards the destruction of civilization itself depending on how it is used.

¹⁰ Sunarko, A. *Iptek Dalam Perspektif Al-Qur'an*. 2019

¹¹ Masruri, hady. *Filsafat Sains Dalam Al-Qur'an* (02 ed.). 2017

¹² Ibid

As we know, information technology is currently not controlled by western nations other than Muslims, so it can be seen that Muslims are lagging behind in civilization.

Information technology is a technology that is used to process data, including processing data, obtaining data, compiling data, storing data and manipulating data in various ways in order to produce quality information, namely information that is accurate, relevant and timely, which can be used for business, personal and even government purpose¹³. Strategic information technology is also used as the main basis for decision making. The technology that exists today is technology that uses computers and the like to process data, LAN or network systems to connect one computer device to another as needed. Telecommunications technology is usually used to spread data globally.

The development of information technology leads people to a new way of life, such as electronic life, which means human life is colored by all things electronic. And currently there is a trend of various letters starting with the prefix "e" such as e-education, e-commerce, e-government, e-library, e-journal, e laboratory, e-medicine, e-biodiversity, and so on¹⁴.

Unknowingly, one of the main causes of the globalization era, which came sooner than many people thought, was the presence of information technology. With the presence of the internet, electronic interchange, electronic data, virtual office and so on, it is able to break through all physical boundaries between countries. This is what happened as a result of the merger between communication technology and computer technology so that a major revolution in information systems was born. Such is the Islamic view of

¹³ Wardiana, W. *Perkembangan Teknologi Informasi di Indonesia*. 2012

¹⁴ Ibid

Technology. Muslims are expected to make the best use of technology to spread goodness and useful knowledge.

As for the use of Information Technology in Islam, as we know that technology is an integral part of our daily lives today. In Islam itself, Islam strongly supports the progress of its people to conduct research in any field, including in the field of technology. In addition to containing a lot about the importance of developing science, in essence the Qur'an contains many things related to the importance of developing science and technology, from the context in which it can also be used as inspiration for the development of science and insight into thinking, so that it can create something new in life. However, to discover this new technology, a deep ability is needed to explore this potential more deeply so that the natural potential given by Allah SWT can provide full benefit and prosperity for the harmony of humans and nature.

One of the benefits of technology, for example the internet, which is most often in demand and sought after by people from all walks of life, is the internet as a medium of entertainment. The internet provides various categories of entertainment, ranging from the level of children, teenagers to adults. The freedom to access entertainment content via the internet at this time encourages its users to be wiser in accessing it. An increasingly easy way to access the internet, because almost all places, especially public facilities, education, etc., currently provide WIFI access and many internet provider companies have sprung up that offer data packages at relatively cheap and affordable prices¹⁵ The Association of Indonesian Internet Service Providers (APJII) released the report "Indonesian Internet Profile 2022". In the report, APJII revealed that Indonesia's internet penetration has reached 77.02% in 2021-2022. The trend of internet penetration in Indonesia is increasing from

¹⁵ APJII. *Daftar Isi Infografis Hasil Survey*. 2017

year to year. In 2018, internet penetration in Indonesia reached 64.8% and its level continues to rise to 73.7% in 2019-2020¹⁶. We can also use smartphones, etc. that we have to access the internet whenever and wherever we are. Currently, one of the activities via the internet that is most sought after and carried out is social media. Islam as a religion that guides its people to always prioritize doing good in every line of life of its followers certainly has limitations for its followers in using social media wisely. Islam supports the presence of technology while still paying attention to the ethics and noble values and morals of its people on the right path.

The conflict between right and wrong has long been going on among the people and will continue to happen as long as humans live on this earth. The presence of Islam is a big and important thing for mankind, with the sending of the Prophet Muhammad as the bearer of the holy treatise. Word of Allah SWT, "and we did not send you (Muhammad Saw) except as a mercy to the universe" and the hadith of the Apostle which says: "Indeed I was sent only to perfect noble morals." (Hadith of Al-Baihaqi).

As for how to use social media and other media based on good information technology according to Islam, among others:

1. Straighten Intentions

In Islam, intention is the main and most important thing before acting, for example, wrong intention in worship can result in sin instead of reward. Especially if you intend and do bad in all kinds of daily activities. Rasulullah SAW said:

¹⁶ APJII. *Daftar Isi Infografis Hasil Survey*. 2022

إِنَّمَا الْأَعْمَالُ بِالنِّيَّاتِ وَإِنَّمَا لِكُلِّ امْرِئٍ مَا نَوَى فَمَنْ كَانَتْ هِجْرَتُهُ إِلَى اللَّهِ
وَرَسُولِهِ فَهِيَ حِجْرَتُهُ إِلَى اللَّهِ وَرَسُولِهِ وَمَنْ كَانَتْ هِجْرَتُهُ لِدُنْيَا يُصِيبُهَا أَوْ امْرَأَةٍ
يُنْكَحُهَا فَهِيَ حِجْرَتُهُ إِلَى مَا هَاجَرَ إِلَيْهِ

“Indeed, all actions depend on the intention. And everyone will get what he wants. Whoever emigrates for the sake of Allah and His Messenger, then his migration will be judged for Allah and His Messenger. And whoever emigrates because he wants the world or because of a woman he wants to marry, then his emigration will reach what he intended.” (Hadith of Bukhari)

Reflecting on the hadith above, it is hoped that everyone will straighten out their intentions in using social media. Whatever things you want to get and what things you want to look for from social media, of course, must be intended first and the intentions must be good. Regarding intentions, of course only Allah and the person concerned can know that. Other people may get a good impression from someone regarding every word, sentence, picture, or video that they upload, but sometimes there is an intention to have fun in it, this can ruin the whole action.

2. Preventing Badness and Spreading Goodness

Basically being a Muslim has many advantages, but the responsibilities are not small. In Q.S. Ali Imran: 110, Allah SWT says:

كُنْتُمْ خَيْرَ أُمَّةٍ أُخْرِجَتْ لِلنَّاسِ تَأْمُرُونَ بِالْمَعْرُوفِ وَتَنْهَوْنَ عَنِ الْمُنْكَرِ
وَتُؤْمِنُونَ بِاللَّهِ ۗ وَلَوْ آمَنَ أَهْلُ الْكِتَابِ لَكَانَ خَيْرًا لَهُمْ ۚ مِنْهُمْ الْمُؤْمِنُونَ وَأَكْثَرُهُمُ
الْفَاسِقُونَ

“You [true believers in Islâmic Monotheism, and real followers of Prophet Muhammad (صلى الله عليه وسلم) and his Sunnah] are the best of peoples ever raised up for mankind; you enjoin Al-Ma‘rûf (i.e. Islâmic Monotheism and all that Islâm has ordained) and forbid Al-Munkar (polytheism, disbelief and all that Islâm has forbidden), and you believe in Allâh. And had the people of the Scripture (Jews and Christians) believed, it would have been better for them; among them are some who have faith, but most of them are Al-Fâsiqûn (disobedient to Allâh - and rebellious against Allâh’s Command)” (Q.S. Ali Imran : 110)¹⁷.

In this verse it is very clear that it is stated that the condition for being the best people is if a people fulfills three things: instructing good, preventing evil, and both are based on faith in Allah SWT. These three things must be practiced by every Muslim in all his activities on social media, if an ummah wants to be included in the category of the best ummah.

In other words, in social media, every effort should be made to serve as a means of collecting rewards instead of sin, both by establishing friendship and using it as a means of da'wah to invite people to goodness. For this reason, Muslims are urged to avoid using social media to spread ugliness, enmity towards others, transmit hatred and spread slander.

¹⁷ Shihab, M. Q. *Al-Qur'an dan Maknanya*. 2016

3. Make the best use of time

All activities that are excessive and dependent are certainly not good. Especially if that time is spent only on social media so that person forgets to worship Allah SWT. Rasulullah SAW always teaches his people to use the best time possible. Because "time" is often overlooked as something valuable, except when time is lost or has been used up. He said: "There are two advantages that many people neglect, unless they are gone: health and free time" (Hadith Of Bukhari).

4. Not Spreading Hate and Not Insulting Others

The activity of vilifying other people on social media or insulting other people, groups, and even certain religions is not justified in Islam. This can be in the form of memes, videos, and so on. A Muslim must be a good ambassador of Islam in attitude and action. It would be nice to think carefully before sharing any information, retweeting or commenting on something that has the potential to become polemic and spread hatred.

Islamic religion teachings require someone to be careful and selective in receiving news or news on social media, and must know the truth of the news before drawing conclusions. This is confirmed in the Qur'an (Q.S. Al-Hujurat : 6)¹⁸.

يَا أَيُّهَا الَّذِينَ آمَنُوا إِن جَاءَكُمْ فَاسِقٌ بِنَبَأٍ فَتَبَيَّنُوا أَن تُصِيبُوا قَوْمًا بِجَهَالَةٍ
فَتُصِيبُوا عَلَى مَا فَعَلْتُمْ نَادِمِينَ

¹⁸ Shihab, M. Q. *Al-Qur'an dan Maknanya*. 2016

“O you who believe! If an evil-liver bring you tidings, verify it, lest ye smite some folk in ignorance and afterward repent of what you did” (Q.S. Al-Hujurat : 6) (Shihab, 2016)

Prudence and conscientiousness must be the main ethos for every Muslim in their activities on social media. This is because there are many traps that are ready to be doubled, for example by immediately believing something to be the truth before knowing the true situation, and then spreading it brutally until it goes viral on social media. If it turns out that the news or news is not valid, of course it will further complicate the atmosphere and situation.

Such is the Islamic view regarding the use of technology as well as social media. Muslims are expected to be able to make the best use of technology to spread knowledge, religious knowledge and spread goodness, and recommend to be able to make the best use of time.

Conclusion

The word of Allah in surah Al-Jatsiyah Verse 13 the sentence "And hath made of service" is the terminology in which Allah SWT orders people to pay attention to the universe, Allah also orders people to read and research. It is these commands that when applied will produce technology, and because technology is human ability to create tools with their knowledge so that the universe is as if it is subject to humans, Allah from the beginning declared sakhrolakum, Allah commands His servants to study and conduct research on technology which exists. For example, the limitations of human vision, through the latest technology can widen and broaden their views. It is a big mistake and far from the truth if there is a perception that Islam does not support technology and does not encourage people to use their minds to invent technology because Islamic civilization is far from ancient times, Europe is still in the realm of darkness, Islamic scholars especially those in Andalusia now Spain, they use their ingenuity to do research and produce technology and it spreads to Europe. However, in several decades, technological developments in the Islamic world spearheaded

by Islamic scholars were stagnant, while in the western world technology developed rapidly so that in the end the Islamic world was left behind, which is very unfortunate because basically the first to start developing technology were Islamic scholars. .

According to Islam, good ways to use social media and other electronic-based media include: straightening intentions, preventing bad things and spreading good things and not indulging in hatred and not insulting other people¹⁹.

Bibliography

- Ali Anwar Yusuf, D. *Islam dan Sains Modern, Sentuhan Islam Terhadap Berbagai Disiplin Ilmu*. Pustaka Setia, 2016
- APJII. *Daftar Isi Infografis Hasil Survey*, 2017
- APJII. *Daftar Isi Infografis Hasil Survey*, 2022
- Masruri, hady. *Filsafat Sains Dalam Al-Qur'an* (02 ed.), 2017
- Roli, A. T. *Fenomena Remaja Menggunakan Media Sosial Dalam Membentuk Identitas*. Komunika, 2, 184–197, 2017
- Salam, A. *Sains dan Dunia Islam*. Perpustakaan Islam ITB, 2013
- Shihab, M. Q. *Tafsir Al-Misbah Vol 15* (M. Q. Shihab, Ed.; Vol. 15). Lentera Hati, 2009
- Shihab, M. Q. *Tafsir Al Misbah Vol. 12* (M. Q. Shihab, Ed.; Vol. 12), 2011
- Shihab, M. Q. *Al-Qur'an dan Maknanya*, 2016
- Sugiyono. *Metode penelitian Manajemen*. Pendekatan kuantitatif, kualitatif, kombinasi, tindakan kelas dan evaluasi, 2013
- Sunarko, A. *Iptek Dalam Perspektif Al-Qur'an*. www.radenbelezt.com, 2019
- Sutopo. *Metodologi Penelitian Kualitatif* (Sutopo, Ed.). UNS, 2006
- Wardiana, W. *Perkembangan Teknologi Informasi di Indonesia*, 2012

¹⁹ Roli, A. T. *Fenomena Remaja Menggunakan Media Sosial Dalam Membentuk Identitas*. Komunika, 2, 184–197. 2017