









The 4th International Conference on Sustainable Innovation (ICoSI) 2020

Cutting Edge Innovations for Sustainable Development Goals

Universitas Muhammadiyah Yogyakarta (Indonesia) October 13 - 14 2020

https://icosi.umy.ac.id/

Focal Conferences



- (ICPU) The 2nd International Conference on Pharmaceutical Updates
- (ICOMS) The 6th International Conference on Management Sciences
- (ICLAS) The 9th International Conference on Law and Society
- (ICMHS) The 4th International Conference Medical and Health Sciences
- (ICAF) The 6th International Conference for Accounting and Finance
- (ILEC) The 2nd International Language and Education Conference
- (ICONURS) The 2nd International Conference on Nursing
- (ICITAMEE) The 1st International Conference on Information Technology, Advanced Mechanical and Electrical Engineering
- (IConARD) International Conference on Agribusiness and Rural Development
- 🛍 (ISHERSS) The 2nd International Symposium on Social Humanities Education and Religious Sciences
- (ICONPO) The 10th International Conference on Public Organization
- (DREAM) The 5th Dental Research and Exhibition Meeting
- (ICHA) The 5th International Conference on Hospital Administration
- (ICOSA) The 3rd International Conference on Sustainable Agriculture





















































































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Preface by the Chairperson of the 4th ICoSI 2020



Dr. Yeni Rosilawati, S.IP. S.E., MM.

Assalamu'alaikum Wr. Wb.

All praise is due to Allah, the Almighty, on whom we depend for sustenance and guidance. Prayers and peace be upon our Prophet, Muhammad SAW, his family and all of his companions.

On behalf of the organizing committee, it is my pleasure and privilege to welcome the honourable guests, distinguished keynote & invited speakers, and all the participants.

With the main theme of "Cutting-Edge Innovations on Sustainable Development Goals (SDGs)", the 4th International Conference on Sustainable Innovation (ICoSI) 2020 serves as a forum to facilitate scholars, policy makers, practitioners, and other interested parties at all levels from Indonesia and abroad to present their novel ideas, promote cutting-edge research, and to expand collaboration network. The conference has about 1373 participants participating from more than 8 countries 4 continents all over the world, making this conference a truly international conference in spirit.

This multidisciplinary conference was first held in 2012 and has undertaken various changes and adopted to the current technological trends of our education system. From having this conference with just 175 participants back in 2012 we have come a long way in making the conference a huge success with more than 1373 participants participating in this two-day conference.

Formerly, this conference consisted of only 9 (nine) focal conferences. This year, there are 14 focal conferences from various disciplines, namely: 1) The 2nd International Conference on Pharmaceutical Updates (ICPU), 2) The 6th International Conference on Management Sciences



(ICoMS), 3) The 9th International Conference on Law and Society (ICLAS), 4) The 4th International Conference Medical and Health Sciences (ICMHS), 5) The 6th International Conference for Accounting and Finance (ICAF), 6) The 2nd International Language and Education Conference (ILEC), 7) The 2nd International Conference on Nursing (ICONURS), 8) The International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE), 9) The 2nd International Conference of Agribusiness and Rural Development (IConARD), 10) The 10th International Conference on Public Organization (ICONPO), 11) The 2nd International Symposium on Social Humanities Education and Religious Sciences (ISHERSS), 12) The 5th Dental Research and Exhibition Meeting (DREAM), 13) The International Conference on Hospital Administration (ICHA), and 14) The 3rd International Conference on Sustainable Agriculture (ICoSA).

Accordingly, We are proud to announce that this year, the 4^{th} ICoSI 2020 breaks the Museum Rekor-Dunia Indonesia (MURI) record as the Virtual Multidisciplinary Conference with the Largest Number of Area of Fields in Indonesia

In addition, this year, this conference holds special value since this is the first conference in the history of our university where the entire conference is taking place remotely on a digital platform through the use of advance technologies due to the Covid-19 Pandemic.

I would take this opportunity to express my highest respect to the Rector of Universitas Muhammadiyah Yogyakarta, Dr. Gunawan Budiyanto who gave approval and ensured the maximal support from all the faculty members of Universitas Muhammadiyah Yogyakarta (UMY) that made this event a big success. In addition, my appreciation goes to all the support teams who have provided their valuable support and advice from planning, designing and executing the program.

Let me conclude my speech by encouraging the delegates to participate with an increasing number in all the activities and discussions through the digital platforms for the next two days. I wish everyone a successful, safe, and fruitful conference.

Thank you!

Wassalamu'alaikum Wr. Wb.

Yogyakarta, Indonesia, 14 October 2020

Inter atlor onferen on Sustrable



Welcoming Remarks by the Rector of Universitas Muhammadiyah Yogyakarta



Assoc. Prof. Dr. Gunawan Budiyanto

Innovation is the beginning of the development of technology, and technology is a development machine that is expected to provide benefits to humans and provide the smallest possible impact on environmental quality. In the concept of sustainable development, development must improve the quality of human life without causing ecological damage and maintain the carrying capacity of natural resources.

International Conference on Sustainable Innovation (ICoSI) is an international conference which is an annual conference held by the University of Muhammadiyah Yogyakarta (UMY), Indonesia. In 2020 this raises the issue of "Cutting-Edge Innovations on Sustainable Development Goals." Therefore, on behalf of all UMY academics, I would like to congratulate you on joining the conference, hoping that during the Covid-19 Pandemic, we can still provide suggestions and frameworks for achieving sustainable development goals.



About The 4th International Conference on Sustainable Innovation (ICoSI) 2020

Cutting Edge Innovations for Sustainable Development Goals

The 2030 Agenda for Sustainable Development is enacted by the United Nations as a shared blueprint for peace and prosperity for people and the planet, now and into the future. It consists of strategies to improve health and education, reduce inequality, and spur economic growth while also conserving natures by 2030.

This year, however, at the first one-third of its timeline, the SDG Reports shows that the outbreak of COVID-19 did hinder the achievement, or at least decelerate the progress of achieving the 17 goals. In fact, according to the report, "some number of people suffering from food insecurity was on the rise and dramatic levels of inequality persisted in all regions. Change was still not happening at the speed or scale required", accordingly.

Therefore, in this event of pandemic, the quantity and quality of research, innovation, and more importantly multi-disciplinary collaboration are indispensable. Furthermore, there needs to be clear ends of those works. That is how those research are applicable and benefits directly to the society. That is how those research is incorporated as the drivers of policy making, and used practically in the society. Hence, the stakeholders especially the triple helix of higher education institution, government, and industry must be re-comprehended and supported to reach the common goal of the SGD.

International Conference on Sustainable Innovation (ICoSI) has been essentially attempting to strengthen this regard since its first establishment. One of the goals of ICoSI is to provide primarily a platform where scholars, practitioners, and government could grasp the development and trends of research. Hopefully, meeting these actors altogether would result in stronger collaboration, sophisticated and advantageous research, and brighter ideas for further research. Based on these reasoning, this year, the 4th ICoSI 2020 UMY is themed 'Cutting-edge Innovations for Sustainable Development Goals".

Improving from last year conference which brought nine focal conference, this year ICoSI 2020 UMY brings 14 disciplines, from social sciences, natural sciences, and humanities. ICoSI 2020 received as much as 1005 papers. The paper works submitted in ICoSI 2020 UMY will be published in Atlantis Proceedings, IOP Proceedings, National/International Journals, and ICoSI ISBN-indexed Proceedings.

Nevertheless, ICoSI believes that publication is only the beginning of research dissemination. The publications will enhance the chance of the research known by wider audience, and then used, applied, and incorporated at either system, institutional, or personal level of human lives.





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TRACK ECONOMICS, LAW, EDUCATION, SOCIAL, AND HUMANITIES





Effect of Parenting against Smartphone Addiction

Mawaddah Nasution^{1,*}, Siswanto Masruri², Khoiruddin Bashori³

ABSTRACT

Educating children in this millennial era is the biggest challenge for parents, today's sophistication of technology enables children to access many things from smartphones, and this makes most children experience smartphone addiction (smartphone addiction). This research wants to find new phenomena related to parenting style for smartphone addiction in early childhood. This study uses a qualitative descriptive method, where data is obtained through observation, interviews, field notes, and documentation. This research was conducted at RA As-Sholiha Medan. Field findings show that children who experience smartphone addiction are caused by inconsistent (permissive) parenting, parents are busy working, care given to others (daycare, babysitters, etc.), as well as parents' reluctance. if the child is already crying. Another finding in this study is that there is a positive impact on children, they are quick to understand new things about colors, shapes, sizes, Islamic songs, and so on.

Keyword: Parenting, Smartphone Addiction.

1. INTRODUCTION

The smartphone is an important item today that must be owned by everyone, especially since the development of smartphones from time immemorial has developed very rapidly. In today's fast-paced and sophisticated era, the use of smartphones is very much needed in the daily life of individuals, therefore this object has become very popular because of its useful uses. Smartphone users are not only adults, but also children because on a smartphone there are many interesting applications for adults, and applications for children are no exception.

Smartphones provide many advantages for people's daily lives, this is what makes smartphones a valuable item. Attachment to smartphones can have negative psychological consequences, such as anxiety when you are away from smartphones (Nie, Wang, & Lei, 2020). Many studies have been carried out on individuals by separating smartphones, and the result will be anxiety if they do not have a smartphone, but they rarely worry about the impact of smartphone activity on themselves (Nie et al., 2020). Other studies have found that being far from a computer

does not affect individual anxiety about it, but if you are far from a smartphone, the individual will experience anxiety so that it can interfere with their activities, and anxiety that often arises is when doing online activities but the unavailability of a telephone network (Nie et al., 2020).

This phenomenon that occurs in our society, even children also experience the same thing if they cannot get access to play games or just watch their favorite shows on a smartphone. This condition is very worrying for parents, where they complain a lot that their children will act tantrums if they cannot hold the object. However, the current dilemma is that the current pandemic condition requires the learning process to be carried out from home using a smartphone, automatically this makes children clingy and difficult to separate from smartphones.

Smartphone addiction can be described as a disorder in which the individual's inability to control smartphone use causes marked distress or functional impairment, and which further creates psychological distress, social difficulties, school or work problems (Burnay, Billieux, Blairy, & Larøi, 2015).

Many parents lately think that smartphones are capable of being safe and easy playmates under supervision. so that the role of parents has now been replaced by smartphones that should be friends to play with. Smartphone as their initial function is as a communication tool, recently changed and changed their function as a game tool that can make someone feel dependent by it, especially on children. One of the symptoms that can be caused by smartphone addiction is that children experience emotional problems, show symptoms of hyperactivity, lack of attention, and lack of interaction with peers (Dhamayanti, Gradia, & Rubiah, 2018).

Parenting patterns greatly affect how the use of smartphones on children, with good parenting it is hoped that this will not cause negative effects on

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children. Parents should try to educate their children properly, not the other way around. We can learn from Luqman's parents that Allah describes in Surah Luqman verse 13, which means: And (remember) when Luqman said to his son when he taught him: "O my son, don't associate with Allah, actually associating partners with (Allah) is great tyranny "https://tafsirq.com/31-luqman/ayat-13.

Parenting is a way for parents to care for and educate their children according to what they want. Parenting itself is a form of parental treatment or interaction with children, (Dwinita Viandari & Pande Ary Susilawati, 2019), the parenting style needed by children from their parents is the ability of parents to carry out their obligations or duties as caregivers who can help children to have a basic - moral basis, selfcontrol, psychological and social atmosphere. If the parenting style applied by authoritarian parents is not directed or floating only imposes the will of the parents and even leads to violence, then the child will become an aggressive and selfish child, on the other hand, if the parents treat their child democratically and gently with praise, the child will be able to respect others. (Gunawan & Muhabbatillah, 2019).

This is where it is important to instill character education for children because the character can be formed as early as possible (Fanreza. Robie, 2016). Children who have not been educated with a good character from a young age will grow up to be children who can do whatever they want without thinking about the moral values that apply in society. The same is the case with smartphone addiction, which seizes the public's attention.

2. LITERATURE REVIEW

2.1. Parenting

Parenting is the interaction between the child and the parents during parenting activities which means that the parents educate, guide, and discipline, and protect the child to enable the child to achieve his developmental tasks. Parenting is a process of parent-child interaction where parents reflect their attitudes and behaviors in guiding and directing children's development and being role models in instilling behavior (Santrock, 2012).

According to Baumrind (Santrock, 2012), there are four types of parenting, which are as follows: first, authoritarian parenting is a form of parenting that requires children to obey and submit to all orders and rules made by parents without the freedom to ask questions or express opinions. alone. The second is permissive parenting, where parents tend to leave their children without controlling behavior. The third is democratic parenting. Parents offer intimacy and accept children's assertive behavior regarding rules,

norms, and values. Parents with this kind of parenting are willing to listen to children's opinions, explain the rules in the family, and explain the norms and values that are adopted. Besides parents can also negotiate with children. The fourth appears parenting patterns, namely parenting patterns that tend to ignore and seem not to care about what the children do.

2.2. Smartphone Addiction

(Kwon et al., 2013) states that the term smartphone addiction or smartphone addiction is a behavior of attachment or dependence on smartphones that allows social problems such as withdrawal, and difficulties in the performance of daily activities or as impulse control disorders of a person. (Karuniawan & Cahyanti, 2013) their journal states that the definition of smartphone addiction is the behavior of excessive cellphone use which can be considered as an impulsive control disorder that is not intoxicating and similar to pathological gambling. (Chiu, 2014) also states that smartphone addiction is one of the addictions that has a lower risk than alcohol addiction or drug addiction. Behavior can be said to be addictive behavior when a person cannot control his desires and hurts the individual concerned.

The emergence of smartphone mobile phones made many people more cool and busy with the features contained in these tools, individuals much prefer interaction via social media networks, rather than having to meet face to face. The existence of a smartphone also has a new effect on user behavior (Bian & Leung, 2015).

3. RESEARCH METHODS

The research method used in this research is a qualitative approach. The use of the qualitative approach used in this study is motivated because the use of qualitative methods allows researchers to know more the reasons why children experience smartphone addiction and find out what factors influence children to experience smartphone addiction through descriptions in the form of words, language, behavior in a special context that is natural and utilizes various data collection methods (Hadi, 2010). Data collection methods used in this study are through field observation. interviews, notes, documentation. This research was conducted at RA As-Sholiha Medan by selecting 3 respondents who represented the criteria for smartphone addiction in children.

4. RESEARCH AND DISCUSSION

This data was taken during the pandemic, so in this study, the data obtained were based on the results of interviews conducted via telephone, and through filling out the questionnaire using the google form which was



submitted to the parents of the child RA As-Sholiha Medan. To obtain the required data, the researcher made and asked a series of questions to the parents about several things, including how often do children use smartphones, what shows children see on smartphones, is there parental assistance to children when children use smartphones, how many hours of smartphone use in a day.

What kind of attitude do parents show to children when using smartphones, child care, do parents work or not, what reasons make parents give smartphones to children, and so on. This question item will be developed in a telephone interview with the parents of the students. Respondents in this study were only limited to 3 respondents, this was chosen based on the tendency of the criteria closest to the indication that children had smartphone addiction predetermined criteria.

The results show that respondents one and two are parents who both work, while respondent three is a housewife. All children with parents working or at home both show addiction to smartphones and it is difficult to stop it, if it is stopped, tantrum behavior will occur. The care that is transferred to others for working parents makes the rules not fully enforceable because there are differences in care between caregivers and parents so that children tend to impose their will. This is in line with the condition of working parents who entrust child care to their parents or caregivers, where grandparents cannot bear to see their grandchildren cry for a smartphone, and immediately give them with an excuse and let the child feel calm. Though this is not entirely true. Also besides, parents who tend not to have the heart to be one of the causes of children experiencing smartphone addiction, and this was experienced by respondents one and two. Meanwhile, respondents of three mothers who are only at home and do not work feel sorry for their children, they are afraid that their children are left behind by their friends who are good at using smartphones so that they let their children play with their smartphones more.

Respondents, three mothers who do not work, and only take care of the household, show sometimes inconsistent results in implementing care for children. When the mother's mood is happy, the child asks for a smartphone, then given it, but when the mother is in a bad mood or maybe because she feels tired and stressed, when the child asks for a smartphone then the mother gets angry and doesn't give it. This inconsistent parenting style also makes some children experience smartphone addiction, sometimes using a smartphone, sometimes not. An unexpected result is that the use of smartphones for a long duration of time, such as during this pandemic, allows children to learn new things and this is of course due to the assistance of parents who during the pandemic work from home.

On the other hand, the inconsistency of working mothers appears when they are busy completing work, and children demand to ask for smartphones. To be able to do their job, parents provide smartphones so that children don't interfere with their work. Mothers who do not work can support their children when they are using a smartphone, and this shows a positive value where children can learn many things from their mothers so that children's understanding can increase. This is in line with the parenting conveyed by the Prophet that mothers are the first teachers for their children at home. (Nurzannah, Akrim, 2015). Also besides (Widya, 2019) said that one of the duties of parents is to be able to shape children's morals and behavior so that they develop in a better direction.

For this reason, the parent needs to be able to provide positive teaching for children, regardless of whether the child is not familiar with smartphones or already familiar with them, whether they are not or have experienced addiction to smartphones. (Hasrian Rudi Setiawan, Abdul Halim, Turmuzi, Tengku Muhammad Hendra, 2020). Permissive parenting in this study seems ineffective because it will hurt children's development, namely children experiencing smartphone addiction. The use of appropriate parenting styles in children will be able to bring changes to children's behavior, in this case, smartphone addiction behavior is expected to decrease and disappear. (Nasution & Sitepu, 2018).

5. CONCLUSION

The conclusion from the results of this study is that inconsistent parenting styles (permissive) or inconsistent parenting styles occur in parents who work or only at home, especially mothers. Working mothers let their children play with smartphones because they are worried that their children will interfere with their work, they feel uncomfortable with their children because they are left working all day and are cared for by other people, while mothers who do not work, giving smartphones is more to the mood caused by routine and daily life at home and the worry of mothers if their children cannot keep up with the times.

For mothers who do not work, there are other findings which state that mentoring children when using smartphones can have a positive effect on new understanding for children, and children will find it easier to learn new things from smartphones because mothers have free time to be more able to accompany children when playing and studying at home.

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