

DOI: <https://doi.org/10.38035/dijefa.v5i3>

Received: 8 June 2024, Revised: 24 June 2024, Publish: 8 July 2024

<https://creativecommons.org/licenses/by/4.0/>

Online Loan Fraud Cases in Indonesia: Diamond Fraud Dimensions

Junaidi¹, Endraria²¹ Postgraduate University of Muhammadiyah Palembang, South Sumatra, Indonesia, junaidpakaram@kmail.com² Master of Accounting Postgraduate Program University of Muhammadiyah Tangerang, Banten Indonesia, endra_umt@yahoo.comCorresponding Author: junaidpakaram@kmail.com

Abstract: The purpose of this paper is to show fraud under the guise of online loans that harm the community and provide solutions so that people avoid these scams. In the Online Loan program, many people have complained about the dissemination of personal data to the authorities that have been carried out by the Online Loan organizer without prior notification from the party concerned. The use of data used in this paper comes from journal articles and also online news related to fraud cases under the guise of online loans that occur in Indonesia. The main factor in the rise of illegal online loans (Pinjol) is the unfulfilled needs and strong belief in money. The Financial Services Authority (OJK) said that the level of financial literacy and inclusion in the peer-to-peer financial technology (fintech P2P) technology industry or online loans (pinjol) is still relatively low. The results stated that it is necessary to implement stricter regulations, increase transparency, build a centralized database to track fraudulent activities, strengthen consumer protection laws, and provide legal solutions for fraud victims. With a comprehensive and coordinated approach, it is expected to reduce fraud cases in online loan services and increase public trust in this industry.

Keyword: Fraud, Online Loans, Diamond Fraud, Cases in Indonesia.

INTRODUCTION

The Financial Services Authority (OJK) said that the existence of online loans has a positive impact on the economic development sector in Indonesia. In July 2023, the total distribution of industrial funds amounted to IDR 27.64 trillion, equivalent to 35.65%, this percentage became the second highest figure in the distribution of funds to the productive sector. In the same period, OJK recorded 118.42 million user accounts, namely 117.28 million borrowers and 1.13 million lenders, the accumulated online loan funds reached IDR 657.85 as of July 2023 (Anggraeni, 2023), but why are there still many cases of fraud under the guise of pinjol in Indonesia?

The Financial Services Authority recorded 3,903 public complaints regarding online loans or illegal loans from January 1 to May 29, 2023. The highest number is 1,173

complaints in January 2023. Then, 636 similar complaints in February 2023, March there were 980 complaints, April there were 694 complaints and May there were 420 complaints. The contents of the complaint received by OJK are related to public complaints with threats of billing to all contacts on the borrower's cellphone, dissemination of personal data, collection with terror to collection without lending (Annur, 2023). The phenomenon of online lending presents various challenges, including difficulties in repaying due to high interest rates and short deadlines, which cause difficulties among borrowers (Defending, 2023; Mabsuti & Nurtresna, 2022). Illegal online lending companies exacerbate the situation by resorting to intimidation tactics, data breaches, and spreading false information, causing harm to individuals and Society (Kurniawati & Yunanto, 2022). The government recognizes the complexity of handling this issue, as weak regulations contribute to the rise of online lending crime (Fitriah Maghfirah & Husna, 2022). Efforts to protect borrowers and combat illegal online lending involve the implementation of legal frameworks, such as the ITE Law and regulations by the Financial Services Authority, which aim to protect personal data and prevent abusive practices in the online lending sector (Putri & Rinaldi, 2023).

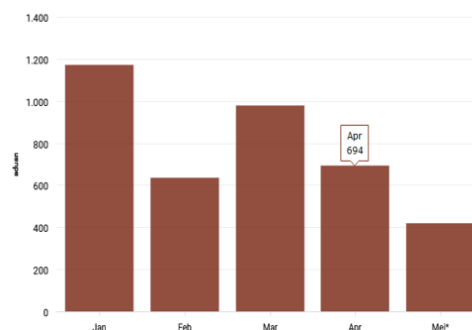


Figure 1. Volume of Public Complaints Related to Illegal Loans January-May 2023 Period

From figure 1. Above regarding the Volume of Public Complaints Related to Illegal Loans for the January-May 2023 Period, it can be said that education is needed for the public to understand financial services in Indonesia. In addition, fintech also needs to be regulated to produce digital financial innovations that are responsible, safe, prioritize consumer protection and have well-managed risks (Dewi, 2020). Not long ago, there was an investment mode that ensnared hundreds of students in Bogor. Hundreds of IPB students were deceived into borrowing debt. From SWI's findings, the number of fraud victims under the guise of investment in Bogor was 317 people, including 121 IPB students with a loss of IDR 2.3 billion (Dewi, 2020). Education plays an important role in increasing public understanding of financial services in Indonesia, especially in the field of fintech (Januraga & Harjana, 2020; M. Lubis, Saputra, & Nurtrisha, 2021).

Study by conducted Wulandari (2019), Daniel, Mediaty, & Ibrahim (2024), J (2022), Natalia, Fadilla, Umar, Arief, & Widyaningsih (2022) We have discussed loan fraud in Indonesia, but to our knowledge, there have not been many studies that discuss effective solutions to overcome the rampant loan fraud. Although there is a lot of education and news that discusses the dangers of illegal loans, there are still many who do not understand so that it has an impact on the psychological side of loan service users such as stress and depression (Mirza Gayatri & Muzdalifah, 2022; Wulandari, 2019). To this end, this article uses the Fraud Diamond approach. The Fraud Diamond Approach is followed by Wolfe & Hermanson (2004)- is an update of the Triangle of Deception of (Cressey, 1973), in this article, the factors that cause fraud under the guise of borrowing occur due to consumptive interests, urgent needs, economic pressure, and low financial literacy.

This article is important for several reasons. First, most analytical tools that discuss cases of illegal loan fraud only focus on causal factors such as economic pressure and

consumptive interests but ignore effective solutions that can sign the case. Deceptive activities span a wide range of modes, often blurring the line between truth and falsehood (Kamaludin, Sohinder, Pratimi, Iman, & Afifa, 2022). Economic fraud, whether through deceptive corporate practices or online gambling schemes, is a significant threat to the stability of Society (Sergeyev & Shirokova, 2023). Detecting fraud, such as in peer-to-peer lending, requires sophisticated methods such as analyzing default rates in the collateral network (JJ Xu, Chen, Zhou, Li, & Zheng, 2022a). Fraud modes are very diverse, tend to be confusing and difficult to distinguish between true and incorrect information. However, if you are equipped with good financial literacy, set the scale of needs according to priorities, and change consumptive behavior, you will not be easily deceived. Fraud that occurs continuously can cause economic instability in society.

Online loan fraud cases in Indonesia from March 2023 to March 2024 have caused significant unrest among the public, especially online loan users. These fraudulent practices often lead to severe consequences such as material losses, psychological distress, physical damage, and social consequences for the victims (Singing, Sweet, Sweet, and Sweet, 2023). Illegal online lenders face sanctions including company closures, jails, fines, and compensation payments (Nurchaya Ningsih, 2023). Perpetrators of such fraudulent practices can face sanctions such as company closure, jail, fines, and compensation payments (Chenyang Wang, 2022). Safeguarding personal data in online financial services is essential, with regulations such as Law No. 27 of 2022 playing an important role in consumer protection (Zhang & Ye, 2022). Legal frameworks such as the ITE Law and the Criminal Code deal with cybercrime, ensuring violators are held accountable for their actions (Rustam, Hamler, Marlina, Handoko, & Alamsyah, 2023). Online loan users often face risks such as threats, data manipulation, and unauthorized dissemination of data, leading to breaches and legal problems. The study highlights the prevalence of this problem, emphasizing the need for consumer protection (Zhao et al., 2023). The lack of expertise in assessing the creditworthiness of borrowers poses a risk to online lending platforms, which require fraud detection mechanisms (Zhao et al., 2023). Legal research underscores the importance of law enforcement to protect online loan recipients from criminal acts such as data disclosure (Saran, Gestora, & Listiyo, 2022a).

The study highlights the importance of privacy concerns, perceived risks, and information sharing in influencing the intention to apply for an online loan (Mastan, Sangari, & Dehghani, 2022; Cui, Lee, & is, 2021). These factors play an important role in shaping consumer behavior towards online financial transactions. Privacy concerns, such as data security and confidentiality, impact the level of trust and satisfaction among investors, ultimately influencing lending intentions (Jahari, Hass, Hass, & Joseph, 2022; Kaur & Arora, 2021). The perceived risks, including financial, privacy, social, time, and psychological dimensions, negatively impact the perceived usefulness and behavioral intent of the e-consulting service, emphasizing the need for a risk management strategy (Milne, Pettinico, Hajjat, & Marcos, 2017). In addition, the interaction between perceived risk and trust, moderated by factors such as performance expectations and social influences, influences intent behavior in online banking, underscoring the importance of trust-building mechanisms and risk mitigation strategies in increasing consumer confidence (Frik & Mittone, 2019). Other research also reveals that privacy concerns, perceived risks, and information sharing are important factors that influence the intention to apply for an online loan (Benamati, Ozdemir, & Smith, 2017; Libaque-Saenz, Chang, Kim, Park, & Rho, 2016; P. Wang, Zheng, Chen, & Ding, 2015). These findings collectively emphasize the urgency of implementing a robust legal framework and security measures to protect online lending users from potential threats and breaches (Bertsch, Hull, Qi, & Zhang, 2020; Ge, 2023; Huang, 2018). The following are some cases of loan fraud that occurred in Indonesia from 2021-2023:

Table 1. Loan Fraud Cases in Indonesia from 2021-2023

Year	Name of Pinjol	Modus Operandi	Victim	Loss (IDR)
2021	Fulus Mujur	Collections with terror	Housewives	51,000,000
2021	Rupiah Wallet	Very high loan interest	A man	90,000,000
2021	Large Limits	Collection accompanied by threats of extortion	Customer	30,000,000
2022	Akulaku	Investment schemes	Student	650,000,000
2022	Fast Money	Fake investments	Hundreds of IPB Students	650,000,000
2022	Quick Funds	WhatsApp messages with loan offers	A mother in Sidoarjo	25,000,000
2023	There is Us	Terrorizing customers due to late payments	Customer	20,000,000
2023	Pinchhole ilegal Pinjol fraud	Various modi operandi	3,903 complaints	-
2023	syndicate	Personal data and OTP fraud	A Bank Mandiri customer	140,000,000

Source: From Various Sources

From table 1 above regarding Loan Fraud Cases in Indonesia From 2021-2023 where the cases above show that loan fraud in Indonesia involves various modus operandi which includes threats, intimidation, and offers with unrealistic returns. The most vulnerable victims are those who lack information or are present in the digital world, such as housewives and students. Loan fraud cases in Indonesia are increasingly rampant and cause great losses to victims. The modus operandi used varies, ranging from aggressive collection, fraudulent investment offers, personal data fraud, to high loan interest. The public, especially housewives and students, are easy targets for loan shark scammers. They are often lured by the lure of huge profits or intimidated by abusive billing. The impact of loan fraud is not only financial loss, but also psychological trauma and reputational damage. Victims have to bear the burden of accumulated debt and experience mental stress due to terror and intimidation. Therefore, it is important for the public to increase financial awareness and education and be careful in using loan services. In addition, governments and related institutions should increase supervision and regulation of the lending industry to protect consumers from fraudulent and exploitative practices.

METHOD

The research method used in the research uses the desk research method, also known as the research description research method, utilizing existing data for analysis and conclusion (E. A. Stewart, 2023). This approach relies on information from various sources such as government data, previous studies, industry statistics, financial reports, and public information (Zhao et al., 2023). This methodology involves searching the literature online, assessing its quality, conducting a literature review to support the research's rationale, and defining types of research such as primary, secondary, empirical, and theoretical (Rinaldo et al., 2022). It also covers quantitative and qualitative methodologies, including ethnography, narrative research, phenomenology, basic theory, and case studies (E. A. Stewart, 2023). Table research involves various data collection methods such as questionnaires, interviews, focus groups, observations, and documentary analysis, each with its advantages and disadvantages (Kankam, 2020).

RESULTS AND DISCUSSION

Results

Ability

Ability is a state in which a person has the characteristics, abilities, or skills necessary to commit fraud. This is the point at which the scammer identifies specific opportunities for fraud and has the means to make them happen. The supporting components of abilities

include position, intelligence, ego, compulsion, deception, and stress. Due to the inability to carry it out or cover it up, not everyone who has motives, opportunities and realizations will be able to commit fraud. When it comes to widespread or persistent fraud, this component is so important that confidence plays a crucial role in various aspects, including fraud detection, self-evaluation, and wheelchair use. Research shows that self-confidence is not solely based on actual ability, because non-ability-based beliefs exist (Luna & Martín-Luengo, 2012). In fraud detection, high levels of trust are associated with more accurate judgments between liars and truth tellers, as opposed to the belief that trust does not distinguish between accurate and inaccurate responses (J. Stewart et al., 2000; Vogt et al., 2022). In addition, in self-evaluation, competence and self-confidence are different terms, with self-confidence affecting a person's willingness to perform tasks regardless of the known level of competence (Rushton, Miller, Kirby, & Janice, 2013). Additionally, self-confidence is a significant predictor of behavior, impacting the performance of wheelchair skills and daily activities among wheelchair users (Smith & Leach, 2019). Therefore, while ability is a factor, confidence also plays an important role in various behaviors and decisions (Harmon et al., 1996; Pallier et al., 2002; Kesenangan & Balmer, 2019).

Incentive (pressure)

The term "perceived pressure" refers to the factors that drive unethical behavior. Every scammer is under pressure to act unethically. Depending on the pressure, it may or may not be financial. Pressure can be felt in a variety of ways, especially when there is an undivisible financial need. The most frequent reason for an entity to commit bad deeds is recognized as financial pressure. More specifically, financial charges on fraudulent accounts account for about 95% of all fraud cases. Incentives or pressure play an important role in motivating individuals to commit fraud (Knisley & Lin, 2022; Moroke & Makatjane, 2022). Incentives, such as financial gain, are often a strong driver of fraudulent behavior, as seen in various financial scandals such as Enron and Enron. *Dunia Com* (Anindya & Adhariani, 2019; Dimitrijević & Jovanović, 2022; Yuniasih, Muliati, Putra, & Dewi, 2020). On the other hand, pressures, including financial stability and external influences, can also have a significant impact on fraud (Abekah Koomson & Yaw Owusu, 2022; Awalluddin, Mr. Nooriani, & Maznorbalia, 2022). Research shows that while incentives and pressure can lead to fraudulent activities, incentives tend to have a stronger effect on fraudulent intent compared to pressure. Understanding these motivations is critical in detecting and preventing fraud, especially in an environment where financial demands and constraints create opportunities for unethical behavior (Murphy & Dacin, 2011; Omar, Nawawi, & Copy, 2016; Setiawan, 2019).

Opportunity

Perception of opportunity is the third condition for fraud. One can commit organizational fraud when the control or governance system is ineffective and provides opportunities. This is referred to as an "internal control vulnerability" in the accounting industry. The perceived opportunity has a similar aspect to the perceived pressure because it does not require the opportunity to also be actual. However, the perception and belief of the perpetrator provide opportunities. In general, opportunity plays an important role in encouraging individuals to commit fraud (Sulistianingsih, 2023; X. Sun & Chen, 2022). Factors such as greed and the existence of opportunities significantly increase the likelihood of fraudulent activities, especially in the procurement of government goods/services (Arief, 2023; Dian Oktarina, 2022). In addition, the regulatory environment and press freedom also affect fraud detection, with designated authorities being crucial in detecting fraud in the financial sector, while journalists play a crucial role in detecting corporate fraud in the non-financial sector (Purnaningsih, 2022; Rinaldo, Oktavia, & Amelia, 2022). In addition, the

analysis of financial fraud cases such as Toshiba and Luckin Coffee highlights the importance of stress factors and opportunities in committing financial fraud, emphasizing the need for comprehensive solutions to address this problem (Purnaningsih, 2022; Rinaldo et al., 2022).

Rationalization

The fourth component of FDT is rationalization. It is stated that before acting unethically, the perpetrator must develop certain morally acceptable concepts. The justification and defense used to distinguish immoral behavior from criminal activity is referred to as rationalization. A person is less likely to cheat if he or she is unable to maintain dishonest behavior. Other scammers justify their actions by saying things like, "I have to steal to make ends meet," and "some people do, why not me?" Because it is difficult to understand the mind of a fraudster, rationalization is difficult to detect. Scammers have a certain mindset that allows them to defend or rationalize their deceptive behavior. Rationalization does look for excuses or justifications for fraud. It involves the cognitive process of justifying deceptive behavior, often by convincing oneself that the action is not morally wrong or justified in some way. Studies have explored different aspects of rationalization in different contexts. For example, research has investigated how external auditors can assess fraud rationalization to improve fraud risk assessments (Kassem, 2022). In addition, investigations have been carried out on how corrupt perpetrators rationalize their actions, freeing themselves from moral imperatives through cognitive misunderstandings (Laurin & Jettinghoff, 2020). Furthermore, the rationalization task in neural network prediction aims to extract key pieces of text as reasons to justify the model's decisions, emphasizing the importance of matching the distribution between rational text and input for effective performance (Gannett & Rector, 2015; Ong, 2018; Rodrigues, 2022).

Discussion

The Fraud Diamond model consists of pressure, opportunity, rationalization, and ability as key components that influence fraudulent activity across various settings (Hayu Dwimawanti & Ramadani, 2023; Hidayah & Sholiqin, 2023; Made et al., 2023; Meifaliani Putri & Fadilah, 2023; Nadia et al., 2023). Overall, the study highlights the prevalence and impact of online loan fraud in Indonesia, highlighting the need for effective strategies to prevent and combat fraud in the industry. The findings underscore the importance of raising awareness among policymakers and industry stakeholders to protect consumers from falling victim to these fraudulent schemes. Going forward, future research should focus on further exploring the dynamics of online loan fraud and identifying innovative solutions to address this growing problem. In conclusion, addressing fraud in the online lending industry is essential for maintaining trust and integrity in the financial system, ultimately benefiting consumers and legitimate lenders.

The findings highlight the importance of increased awareness among policymakers and industry stakeholders to protect consumers from falling victim to these fraudulent schemes. One potential solution to combat fraud in the online lending industry is the implementation of stricter regulatory and supervisory measures. By increasing transparency and accountability in the industry, policymakers can help prevent fraudulent activities and protect consumers from falling victim to fraudsters. Additionally, industry stakeholders must work together to develop best practices and standards for detecting and preventing fraud, ultimately creating a safer environment for all parties involved. Additionally, educating consumers about the risks associated with online lending and providing them with tools to identify and report fraudulent behavior can also play a key role in reducing the impact of fraudsters. Ultimately, a multi-faceted approach that involves collaboration between regulators, industry players, and consumers is essential to effectively address the problem of fraud in the online lending sector.

Diamond Fraud Problem Solutions for Pressure Components

Online Loan Cases that occur in Indonesia can be overcome by providing adequate education and training to employees regarding ethics and business values that must be upheld. In addition, it is also important to strengthen internal supervision and conduct continuous monitoring of employee activities. With these preventive measures implemented, it is hoped that the company can reduce the risk of fraud and strengthen the integrity of the company as a whole. For example, fintech companies can provide training to employees regarding the risk of fraud in online lending and the importance of upholding the principle of integrity. In addition, companies can also install advanced monitoring systems to detect potential fraud committed by employees in real-time. With proper training and an effective monitoring system, fintech companies can prevent fraud in online lending and ensure that the integrity of the company is maintained. This can increase customer trust and maintain the company's reputation in the competitive fintech industry.

In addition, companies also need to have clear and transparent policies regarding the governance and management of loan funds in order to reduce the risk of fraud. With a strict monitoring mechanism and regular internal audits, companies can minimize the potential for fraud that can harm the company and customers. The importance of maintaining integrity and trust in the fintech industry is not only to maintain the company's reputation, but also to provide a sense of security and protection to consumers who use online loan services. Thus, the company can continue to grow and make a positive contribution to the development of the digital economy in the future.

Diamond Fraud Problem Solutions for Opportunity components

Regulations are not strict enough and law enforcement is still minimal. This allows for loopholes for irresponsible individuals to commit fraud and fraud in online loan services. Regulations that are not strict enough can also lead to a lack of protection for consumers who fall victim to this fraudulent practice. In addition, minimal law enforcement also makes criminals feel more free to commit crimes without fear of consequences. Therefore, there is a need for cooperation between the government, regulators, and fintech companies to increase supervision and law enforcement in the online lending industry to prevent fraud cases that harm consumers. For example, cases of fraud that occur on online lending services can include modus operandi where irresponsible parties claim to be leading fintech companies to obtain personal and financial information from consumers. This can result in significant financial losses for victims and can be difficult for authorities to trace. Therefore, it is important for governments, regulators, and fintech companies to work together in improving oversight and law enforcement in the online lending industry. Measures such as strict identity verification and training for consumers to recognize signs of fraud can help prevent such fraud cases. In addition, cross-sector cooperation is also needed so that law enforcement against fraud cases can be carried out effectively and efficiently, thereby creating a safer and more reliable business environment for consumers.

Governments, regulators, and fintech companies should collaborate with each other in developing stricter policies and procedures to protect consumers from fraudulent practices in the online lending industry. With strong cooperation between various related parties, it is hoped that it can create a more transparent and safe business environment for all parties involved. In addition, education and socialization to the public are also important to increase awareness of fraud risks and how to overcome them. With the right preventive measures, it is hoped that it can reduce fraud cases in the online lending industry and increase public trust in digital financial services.

Diamond Fraud Problem Solution for Rationalization component

The solution to the problem The four components of Diamond Fraud are mainly the "Rationalization" of Online Loan Cases that occur in Indonesia. It is the main focus in future fraud prevention efforts. The solution is to improve the regulation and supervision of online loan services and increase the transparency and accountability of the service provider companies. It is hoped that with the right preventive measures, it is hoped that it can reduce fraud cases in the online lending industry and increase public trust in digital financial services. Solution to the Four Components of Diamond Fraud, especially the "Rationalization" of Online Loan Cases that occurred in Indonesia, is the main focus in future fraud prevention efforts. The solution is to improve the regulation and supervision of online loan services and increase the transparency and accountability of the service provider companies. In addition, public education and awareness about fraud risks also need to be increased to reduce vulnerability to fraudulent actions. An example of a case that can be taken is when someone applies for an online loan without understanding the details of the applicable terms and conditions. This can trigger fraud due to a lack of understanding of the processes and risks associated with online loan services. By improving regulations, supervision, transparency, and education to the public, it is hoped that it can reduce fraud cases in online loan services.

In addition, it is also important to increase cooperation between authorities, financial institutions, and the public in identifying and preventing fraud. Increasing socialization and education on how to recognize signs of fraud also needs to be carried out continuously. Thus, it is hoped that public awareness of fraud risks can increase, so that they can be more vigilant and avoid harmful fraudulent acts. Collaborative efforts from various parties are key in reducing the vulnerability to fraud in online lending services. Cooperation between authorities, financial institutions, and the public is very important in efforts to prevent fraud. Continuous socialization and education are also needed so that the public can better recognize the signs of fraud. With increasing awareness, it is hoped that the public can be more vigilant and avoid harmful fraud. Collaboration of various parties is the main key in reducing vulnerability to fraud in online loan services.

Diamond Fraud Problem Solution for Capability components

The four components of Diamond Fraud, especially the "capabilities" of Online Loan Cases that occur in Indonesia, must be immediately identified and addressed, the solution is to optimize the supervision and regulation of online loan services and improve people's financial literacy. In addition, it is also important to educate the public on how to recognize signs of fraud in online loan services in order to reduce the risk of becoming a victim. With the right preventive measures, it is hoped that fraud cases in online loan services can be minimized and people can use these services more safely and comfortably. In the realm of online lending services, collaboration between governments, financial institutions, and industry associations is essential to raise awareness regarding the risks associated with the platform (Zhao et al., 2023). In addition, cooperation between authorities and online lending platforms is essential to improve the monitoring and enforcement mechanisms against fraudulent activities (Prativi, Pravav, Nugraha, & Wardhani, 2022). The emergence of fraud in online lending requires the application of advanced technology and data analysis for effective fraud detection and prevention (Dia & Li, 2020; Cheng Wang et al., 2023). By leveraging innovative approaches such as deep multiview learning models and ensemble algorithms, financial institutions can improve their ability to identify fraudulent users and minimize economic losses. This collaborative effort is crucial in maintaining the integrity of online lending platforms and protecting consumers from potential financial exploitation. With this collaborative effort, it is hoped that it can create a safer and more reliable environment for online loan service users. So that users can avoid the risk of becoming a victim of fraud.

For example, the government can work with banks and fintech associations to educate the public about the signs of fraud on online lending services. In addition, law enforcement against online lending platforms that carry out fraudulent practices also needs to be strengthened to provide a deterrent effect for these criminals.

With the steps that have been taken, it is hoped that it can reduce the number of fraud cases on online loan services and increase public trust in these services. In addition, cooperation between governments, banks, and fintech associations can also help create stricter regulation in the industry, making it difficult for fraudsters to thrive. Public education is also an important key in fraud prevention efforts, so that users can be more vigilant and avoid traps that threaten their finances. With the increasing awareness and knowledge of the public about the risks of online fraud, it is hoped that they will be more vigilant and cautious in using online loan services. Continuing education can help reduce the number of fraud victims and protect their finances from harmful threats. With the cooperation of all related parties, it is hoped that the online loan service industry can develop better and provide greater benefits to the community.

Policy recommendations to deal with Pinjol Fraud. This includes implementing stricter regulations and enforcement mechanisms to hold fraudulent lenders accountable, as well as increasing transparency and disclosure requirements for online lending platforms. Additionally, creating a centralized database to track and monitor fraudulent activity in the industry can help identify patterns and trends that can inform future prevention strategies. It is also important to strengthen consumer protection laws and provide avenues for solicitation for victims of fraud. By taking a comprehensive and coordinated approach, policymakers can effectively combat fraud and protect consumers from falling victim to fraudulent schemes. One of the key aspects in the fight against Loan Fraud is increasing regulatory oversight of the online lending industry. This could involve implementing stricter licensing requirements for lenders and making them more accountable for their actions. By increasing transparency and disclosure requirements, borrowers can make more informed decisions and avoid falling victim to fraudulent schemes. Additionally, building a centralized database to track and monitor fraudulent activity can help authorities identify and address emerging threats in a timely manner. Strengthening consumer protection laws and providing avenues for victims of fraud can also help prevent deceptive behavior and provide support for those who have been hurt. Overall, a comprehensive and coordinated approach is essential to effectively combat fraud and protect consumers from financial damage. For example, in Indonesia, the government has implemented a national anti-fraud database to track and monitor fraudulent activities such as Loan Fraud. This centralized database allows authorities to quickly identify patterns and trends in fraudulent schemes, allowing them to take proactive steps to protect consumers and prevent further damage. Additionally, consumer protection laws have been strengthened to provide legal remedies for victims of fraud, ensuring that those affected have an avenue to seek justice and return.

In addition, financial institutions and digital lending platforms have also taken steps to strengthen consumer protection measures. Many banks and online lenders have implemented strict verification processes to prevent identity theft and fraud. They have also increased transparency in their terms and conditions, making it easier for consumers to understand their rights and obligations when taking out loans. Additionally, some platforms have introduced measures such as interest rate and fee limits to discourage predatory lending practices. Overall, these efforts aim to create a safer and more secure financial environment for consumers in Indonesia.

CONCLUSION

In an effort to tackle fraud in online loan services, multi-faceted collaboration is needed between the government, regulators, fintech companies, and the public, following the Fraud

Diamond model. These initiatives include business ethics education, strengthening internal supervision, tightening regulations, and increasing financial literacy and transparency. Policy recommendations include implementing stricter regulations, creating a centralized database for fraud tracking, strengthening consumer protections, and providing legal solutions for victims. This integrated and comprehensive approach is expected to reduce fraud cases and increase trust in the fintech industry.

REFERENSI

- Abekah Koomson, T. A., & Yaw Owusu, G. M. (2022). The Motivation to Engage in Fraud by Individuals at the Workplace. *Delivering Distinctive Value in Emerging Economies: Efficient and Sustainably Responsible Perspectives from Management Researchers and Practitioners*, 189–204. <https://doi.org/10.4324/9781003152217-17>
- Anggraeni, R. (2023). OJK Beri Bukti Kontribusi Pinjol pada Ekonomi Indonesia 2023. Retrieved April 12, 2024, from <https://finansial.bisnis.com/read/20230921/563/1697302/ojk-beri-bukti-kontribusi-pinjol-pada-ekonomi-indonesia-2023>
- Angkasa, A., Wamafma, F., Juanda, O., & Nunna, B. P. (2023). Illegal Online Loans in Indonesia: Between the Law Enforcement and Protection of Victim. In *Lex Scientia Law Review* (Vol. 7). <https://doi.org/10.15294/lesrev.v7i1.67558>
- Anindya, J. R., & Adhariani, D. (2019). Fraud risk factors and tendency to commit fraud: analysis of employees' perceptions. *International Journal of Ethics and Systems*, 35(4), 545–557. <https://doi.org/10.1108/IJOES-03-2019-0057>
- Annur, C. M. (2023). Ada 3,9 Ribu Aduan Kasus Pinjol Ilegal sejak Awal 2023, Ini Tren Bulanannya. Retrieved April 12, 2024, from <https://databoks.katadata.co.id/datapublish/2023/06/14/ada-39-ribu-aduan-kasus-pinjol-ilegal-sejak-awal-2023-ini-tren-bulanannya>
- Arief, W. A. I. dan M. A. B. (2023). *The Influence of Fraud Hexagon Perspective on Fraud Financial Statement (Case studies on Manufacturing in the Chemical and Basic Industries Sub-Sector Listed on the Indonesia Stock Exchange for the Period 2019-2021)*. 4072–4081. <https://doi.org/10.46254/AP03.20220656>
- Awalluddin, M. A., Tuan Nooriani, T. I., & Maznorbalia, A. S. (2022). The Relationship Between Perceived Pressure, Perceived Opportunity, Perceived Rationalization And Fraud Tendency Among Employees: A Study From The People's Trust In Malaysia. *Studies in Business and Economics*, 17(2), 23–43. <https://doi.org/10.2478/SBE-2022-0023>
- Benamati, J. H., Ozdemir, Z. D., & Smith, H. J. (2017). An empirical test of an Antecedents - Privacy Concerns - Outcomes model. *Journal of Information Science*, 43(5), 583–600. <https://doi.org/10.1177/0165551516653590>
- Bertsch, C., Hull, I., Qi, Y., & Zhang, X. (2020). Bank misconduct and online lending. *Journal of Banking and Finance*, 116. <https://doi.org/10.1016/J.JBANKFIN.2020.105822>
- Cressey, D. R. (Donald R. (1973). *Other people's money; a study in the social psychology of embezzlement*. 191. Retrieved from <https://search.worldcat.org/title/628437>
- Daniel, L., Mediaty, M., & Ibrahim, M. A. (2024). Pengaruh Skeptisisme Profesional dan Integritas terhadap Kemampuan Auditor dalam Mendeteksi Kecurangan. *Akrual: Jurnal Bisnis Dan Akuntansi Kontemporer*, 19–31. <https://doi.org/10.26487/AKRUAL.V17I01.28365>
- de Gardelle, V., & Mamassian, P. (2014). Does confidence use a common currency across two visual tasks? *Psychological Science*, 25(6), 1286–1288. <https://doi.org/10.1177/0956797614528956>
- Dewi, H. K. (2020). Begini Peran Fintech dalam Pemulihan Ekonomi Nasional. Retrieved

- April 13, 2024, from <https://www.bareksa.com/berita/berita-ekonomi-terkini/2020-11-09/begini-peran-fintech-dalam-pemulihan-ekonomi-nasional>
- Dian Oktarina. (2022). Social Media Sebagai Data Non Financial Untuk Deteksi Financial Fraud. *Accounting and Management Journal*, 6(1), 26–35. <https://doi.org/10.33086/AMJ.V6I1.2733>
- Dimitrijević, D., & Jovanović, D. (2022). Economic Motives and Willingness of Young People to Participate in Fraud. *Naše Gospodarstvo/Our Economy*, 68(3), 18–27. <https://doi.org/10.2478/NGOE-2022-0015>
- Frik, A., & Mittone, L. (2019). Factors Influencing the Perception of Website Privacy Trustworthiness and Users' Purchasing Intentions: The Behavioral Economics Perspective. *Journal of Theoretical and Applied Electronic Commerce Research*, 14(3), 89–125. <https://doi.org/10.4067/S0718-18762019000300107>
- Gannett, A., & Rector, C. (2015). The Rationalization of Political Corruption. *Public Integrity*, 17(2), 165–175. <https://doi.org/10.1080/10999922.2015.1000654>
- Ge, X. (2023). Analysis of legal framework solutions to protect retail consumers. *International Journal of Retail and Distribution Management*. <https://doi.org/10.1108/IJRDM-02-2023-0055>
- Ginting, G. (2023). *Analysis and Assessment of Legal Protection of The Community and Online Loan Debtors During The Covid 19 Pandemic*. 1(04), 277–282. <https://doi.org/10.58451/ijebss.v1i04.44>
- Harmon, L. W., Borgen, F. H., Berreth, J. M., King, J. C., Schauer, D., & Ward, C. C. (1996). The skills confidence inventory: A measure of self-efficacy. *Journal of Career Assessment*, 4(4), 457–477. <https://doi.org/10.1177/106907279600400408>
- Hayu Dwimawanti, I., & Ramadani, N. (2023). The Fraud Diamond of Public Service in Indonesia. *KnE Social Sciences*. <https://doi.org/10.18502/KSS.V8I11.13569>
- He, J., & Li, Q. (2020). Can online social interaction improve the digital finance participation of rural households? *China Agricultural Economic Review*, 12(2), 295–313. <https://doi.org/10.1108/CAER-11-2019-0213>
- Hidayah, N., & Sholihin, M. N. (2023). Pengaruh Fraud Diamond Terhadap Perilaku Kecurangan Akademik Mahasiswa dengan Dua Faktor Moderasi. *Akuntansi : Jurnal Akuntansi Integratif*, 8(2), 163–173. <https://doi.org/10.29080/JAI.V8I2.833>
- Huang, R. H. (2018). Online P2P Lending and Regulatory Responses in China: Opportunities and Challenges. *European Business Organization Law Review*, 19(1), 63–92. <https://doi.org/10.1007/S40804-018-0100-Z>
- J, D. Ks. Bi. P. (2022). Faktor-Faktor yang Mempengaruhi Kemampuan Auditor dalam mendeteksi Kecurangan: pendekatan Explanatori Sequential.
- Jahari, S. A., Hass, A., Hass, D., & Joseph, M. (2022). Navigating privacy concerns through societal benefits: A case of digital contact tracing applications. *Journal of Consumer Behaviour*, 21(3), 625–638. <https://doi.org/10.1002/CB.2029>
- Januraga, P. P., & Harjana, N. P. A. (2020). Improving Public Access to COVID-19 Pandemic Data in Indonesia for Better Public Health Response. *Frontiers in Public Health*, 8, 563150. <https://doi.org/10.3389/FPUBH.2020.563150>
- Kamalludin, I., Suhendar, H., Pratami, B. D., Yaqin, 'Alamul, & Afifah, N. (2022). Criminal law treats for online gambling performers: investment fraud modes. *Dialogia Iuridica*, 14(1), 26–51. <https://doi.org/10.28932/di.v14i1.5252>
- Kankam, P. K. (2020). Approaches in Information Research. *New Review of Academic Librarianship*, 26(1), 165–183. <https://doi.org/10.1080/13614533.2019.1632216>
- Kassem, R. (2022). How could external auditors assess the rationalization of fraud? *Journal of Financial Crime*, 29(4), 1458–1467. <https://doi.org/10.1108/JFC-08-2021-0184>
- Kaur, S., & Arora, S. (2021). Role of perceived risk in online banking and its impact on behavioral intention: trust as a moderator. *Journal of Asia Business Studies*, 15(1), 1–30.

- <https://doi.org/10.1108/JABS-08-2019-0252>
- Knisley, R. J., & Lin, H. (2022). A Review of Literature and Experimental Evidence on Fraud Motivation: Differentiating Incentive and Pressure. *Journal of Forensic Accounting Research*, 7(1), 184–209. <https://doi.org/10.2308/JFAR-2020-024>
- Kurniawati, H., & Yunanto, Y. (2022). Perlindungan Hukum Terhadap Penyalahgunaan Data Pribadi Debitur Dalam Aktivitas Pinjaman Online. *Jurnal Ius Constituendum*, 7(1), 102. <https://doi.org/10.26623/jic.v7i1.4290>
- Laurin, K., & Jettinghoff, W. M. (2020). What kind of rationalization is system justification? *The Behavioral and Brain Sciences*, 43, e39. <https://doi.org/10.1017/S0140525X19002243>
- Libaque-Saenz, C. F., Chang, Y., Kim, J., Park, M. C., & Rho, J. J. (2016). The role of perceived information practices on consumers' intention to authorise secondary use of personal data. *Behaviour and Information Technology*, 35(5), 339–356. <https://doi.org/10.1080/0144929X.2015.1128973>
- Lubis, M., Saputra, M., & Nurtrisha, W. A. (2021). *Financial Technology Development Framework for Prosperity of the Nation and Potential Direction*. <https://doi.org/10.1145/3479162.3479194>
- Luna, K., & Martín-Luengo, B. (2012). Confidence-Accuracy Calibration with General Knowledge and Eyewitness Memory Cued Recall Questions. *Applied Cognitive Psychology*, 26(2), 289–295. <https://doi.org/10.1002/ACP.1822>
- Mabsuti, M., & Nurtresna, R. (2022). Perlindungan hukum terhadap konsumen pinjaman online dalam sistem hukum indonesia. *Bureaucracy Journal : Indonesia Journal of Law and Social-Political Governance*, 2(1), 235–243. <https://doi.org/10.53363/bureau.v2i1.90>
- Made, K. A., Cahyaningsih, D. S., & Djati, W. (2023). Fraud Diamond: Four Elements of Financial Report Fraud Detection – Study on Coal Producers. *Journal of Research on Business and Tourism*, 3(1), 55. <https://doi.org/10.37535/104003120236>
- Maghfirah, F., & Husna, F. (2022). Cyber Crime and Privacy Right Violation Cases of Online Loans in Indonesia. *PROCEEDINGS: Dirundeng International Conference on Islamic Studies*, 1–18. <https://doi.org/10.47498/dicis.v1i1.1009>
- Mashatan, A., Sangari, M. S., & Dehghani, M. (2022). How Perceptions of Information Privacy and Security Impact Consumer Trust in Crypto-Payment: An Empirical Study. *IEEE Access*, 10, 69441–69454. <https://doi.org/10.1109/ACCESS.2022.3186786>
- Meifaliani Putri, F., & Fadilah, S. (2023). Analisis Faktor–Faktor Fraud Diamond dan Ukuran Perusahaan terhadap Kecurangan Laporan Keuangan pada Perusahaan Sub Sektor Transportasi yang Terdaftar di Bursa Efek Indonesia Periode 2019-2021. *Bandung Conference Series: Accountancy*, 3(1). <https://doi.org/10.29313/BCSA.V3I1.6061>
- Milne, G. R., Pettinico, G., Hajjat, F. M., & Markos, E. (2017). Information Sensitivity Typology: Mapping the Degree and Type of Risk Consumers Perceive in Personal Data Sharing. *Journal of Consumer Affairs*, 51(1), 133–161. <https://doi.org/10.1111/JOCA.12111>
- Mirza Gayatri, A., & Muzdalifah, M. (2022). Memahami Literasi Keuangan sebagai upaya Pencegahan Perilaku Konsumtif dari Pinjaman Online. *Judicious*, 3(2), 297–306. <https://doi.org/10.37010/jdc.v3i2.1113>
- Moroke, N. D., & Makatjane, K. (2022). Predictive modelling for financial fraud detection using data analytics: A gradient-boosting decision tree. *Applications of Machine Learning and Deep Learning for Privacy and Cybersecurity*, 25–45. <https://doi.org/10.4018/978-1-7998-9430-8.CH002>
- Murphy, P. R., & Dacin, M. T. (2011). Psychological Pathways to Fraud: Understanding and Preventing Fraud in Organizations. *Journal of Business Ethics*, 101(4), 601–618.

- <https://doi.org/10.1007/S10551-011-0741-0>
- Nadia, N., Nugraha, N., & Sartono, S. (2023). Analisis Pengaruh Fraud Diamond Terhadap Kecurangan Laporan Keuangan Pada Bank Umum Syariah. *Jurnal Akuntansi Dan Governance*, 3(2), 125. <https://doi.org/10.24853/JAGO.3.2.125-139>
- Natalia, L., Fadilla, N. N., Umar, A., Arief, M., & Widyaningsih, A. (2022). Analysis of Factors Affecting the Auditor's Ability to Detect Fraud. *International Journal Management Science and Business Journal*, 4(1), 45–66. <https://doi.org/10.17509/msb.v5i1>
- Nurcahya Ningsih, I. (2023). Criminal Accountability For Illegal Online Loans That Conduct Crime In The Form Of Peer-To-Peer Lending In The Community. *Article 368 Awang Long Law Review*, 5(2), 397–404.
- Omar, M., Nawawi, A., & Salin, A. S. A. P. (2016). The causes, impact and prevention of employee fraud: A case study of an automotive company. *Journal of Financial Crime*, 23(4), 1012–1027. <https://doi.org/10.1108/JFC-04-2015-0020>
- Ong, A. S. J. (2018). *Perpetrators vs. Auditors: Factors that Influence the Occurrence of Fraud and Audit Interventions*. <https://doi.org/10.33915/ETD.7223>
- Pallier, G., Wilkinson, R., Danthiir, V., Kleitman, S., Knezevic, G., Stankov, L., & Roberts, R. D. (2002). The role of individual differences in the accuracy of confidence judgments. *Journal of General Psychology*, 129(3), 257–299. <https://doi.org/10.1080/00221300209602099>
- Plesence, P., & Balmer, N. J. (2019). Development of a General Legal Confidence Scale: A First Implementation of the Rasch Measurement Model in Empirical Legal Studies. *Journal of Empirical Legal Studies*, 16(1), 143–174. <https://doi.org/10.1111/JELS.12212>
- Pratiwi, R., Prabowo, M. S., Nugroho, M., & Wardhani, W. N. R. (2022). Fraud Risk in Peer Lending Fintech Transactions: The Role of Consumer Protection Regulation in Indonesia. *International Journal of Social Science and Business*, 6(4), 469–477. <https://doi.org/10.23887/IJSSB.V6I4.46511>
- Purnaningsih, N. K. C. (2022). Fraudulent Financial Reporting Analysis on Non-Financial Companies Listed on IDX in Hexagon Fraud Perspective. *Budapest International Research and Critics Institute (BIRCI-Journal)*. <https://doi.org/10.33258/BIRCI.V5I2.4955>
- Putri, P. A., & Rinaldi, K. (2023). The problems of Illegal Online Loans based on the Victim's Perspective: A Case Study. *International Journal of Advances in Social and Economics*, 4(3), 102–106. <https://doi.org/10.33122/ijase.v4i3.215>
- Qi, M., Cui, J., Li, X., & Han, Y. (2021). Perceived factors influencing the public intention to use E-Consultation: Analysis of web-based survey data. *Journal of Medical Internet Research*, 23(1). <https://doi.org/10.2196/21834>
- Rinaldo, N. S. M., Oktavia, R., & Amelia, Y. (2022). Fraud Triangle Perspective on The Tendency of Fraudulent Financial Statements in Non-financial State-Owned Enterprises. *Asian Journal of Economics and Business Management*, 1(2), 58–66. <https://doi.org/10.53402/AJEEM.V1I2.86>
- Rodrigues, C. C. C. (2022). “No One Treated it as a Crime”: An Empirical Study of Corruption Rationalization. *Academy of Management Proceedings*, 2022(1). <https://doi.org/10.5465/AMBPP.2022.11697ABSTRACT>
- Rushton, P. W., Miller, W. C., Kirby, R. L., & Janice, J. (2013). Measure for the assessment of confidence with manual wheelchair use (wheelcon-m) version 2.1: Reliability and validity. *Journal of Rehabilitation Medicine*, 45(1), 61–67. <https://doi.org/10.2340/16501977-1069>
- Rustam, M. H., Hamler, H., Marlina, T., Handoko, D., & Alamsyah, R. (2023). Peran Dan Tanggung Jawab Konsumen Untuk Mencegah Praktik Penipuan Dalam Transaksi Online Dari Perspektif Hukum Perlindungan Konsumen. *Riau Law Journal*, 7(1), 1.

- <https://doi.org/10.30652/rlj.v7i1.8050>
- Sergeyev, A. Y., & Shirokova, O. (2023). Fraud in a digital society in the context of social change. *Цифровая Социология*, 6(1), 59–71. <https://doi.org/10.26425/2658-347x-2023-6-1-59-71>
- Setiawan, M. A. (2019). *The Influence of Pressure in Detecting Financial Statement Fraud*. <https://doi.org/10.2991/ICAME-18.2019.47>
- Shalahuddin, A Tegar, & Yunita, A. (2022). Perlindungan Hukum Terhadap Pengguna Pinjaman Online Ilegal (Studi di Otoritas Jasa Keuangan Wilayah Yogyakarta). *JCH Jurnal Cendikia Hukum*, 8(September), 118–138. <https://doi.org/10.3376/jch.v8i1.583>
- Smith, A. M., & Leach, A. M. (2019). Confidence Can Be Used to Discriminate Between Accurate and Inaccurate Lie Decisions. *Perspectives on Psychological Science*, 14(6), 1062–1071. <https://doi.org/10.1177/1745691619863431>
- Stewart, E. A. (2023). Research methods. *How Britain Loves the NHS*, 121–127. <https://doi.org/10.51952/9781447368892.BM001>
- Stewart, J., O'Halloran, C., Barton, J. R., Singleton, S. J., Harrigan, P., & Spencer, J. (2000). Clarifying the concepts of confidence and competence to produce appropriate self-evaluation measurement scales. *Medical Education*, 34(11), 903–909. <https://doi.org/10.1046/J.1365-2923.2000.00728.X>
- Subagiyo, D. T., Gestora, L. R., & Sulistiyo, S. (2022). Characteristic of illegal online loans in indonesia. *Indonesia Private Law Review*, 3(1), 69–84. <https://doi.org/10.25041/iplr.v3i1.2594>
- Sulistianingsih. (2023). Greed, Opportunity Pemicu Fraud Dengan Moderasi Idealisme Pimpinan. *JRAK (Jurnal Riset Akuntansi Dan Bisnis)*, 9(1), 234–243. <https://doi.org/10.38204/JRAK.V9I1.1141>
- Sun, X., & Chen, Y. (2022). Why do people with similar levels of internal control differ in their likelihood to commit fraud? Analysis of the moderating effect of perceived opportunity to commit fraud. *Frontiers in Psychology*, 13. <https://doi.org/10.3389/FPSYG.2022.999469/PDF>
- Vogt, R. L., Zheng, A., Briley, D. A., Malanchini, M., Harden, K. P., & Tucker-Drob, E. M. (2022). Genetic and Environmental Factors of Non-Ability-Based Confidence. *Social Psychological and Personality Science*, 13(3), 734–746. <https://doi.org/10.1177/19485506211036610>
- Wang, Cheng, Zhu, H., Hu, R., Li, R., & Jiang, C. (2023). LongArms: Fraud Prediction in Online Lending Services Using Sparse Knowledge Graph. *IEEE Transactions on Big Data*, 9(2), 758–772. <https://doi.org/10.1109/TBDDATA.2022.3172060>
- Wang, Chenyang. (2022). Online Dating Scam Victims Psychological Impact Analysis. *Journal of Education, Humanities and Social Sciences*, 4, 149–154. <https://doi.org/10.54097/ehss.v4i.2740>
- Wang, P., Zheng, H., Chen, D., & Ding, L. (2015). Exploring the critical factors influencing online lending intentions. *Financial Innovation*, 1(1). <https://doi.org/10.1186/S40854-015-0010-9>
- Wolfe, D. T., & Hermanson, D. R. (2004a). *The Fraud Diamond: Considering the Four Elements of Fraud*. Retrieved from <https://digitalcommons.kennesaw.edu/facpubs>
- Wolfe, D. T., & Hermanson, D. R. (2004b). The FWolfe, D. T. and Hermanson, D. R. (2004) 'The Fraud Diamond: Considering the Four Elements of Fraud: Certified Public Accountant', *The CPA Journal*, 74(12), pp. 38–42. doi: DOI:raud Diamond: Considering the Four ElemWolfe, D. T. and Hermanson, D. R. *The CPA Journal*, 74(12), 38–42.
- Wulandari, H. K. (2019). Faktor-Faktor Internal yang Mempengaruhi Kemampuan Auditor dalam Mendeteksi Kecurangan (Fraud) (Studi Empiris pada Bpk RI Perwakilan Provinsi Jawa Tengah) - Neliti. Retrieved April 13, 2024, from

- <https://www.neliti.com/publications/331084/faktor-faktor-internal-yang-mempengaruhi-kemampuan-auditor-dalam-mendeteksi-kecu>
- Xu, J. J., Chen, D., Chau, M., Li, L., & Zheng, H. (2022). Peer-to-Peer Loan Fraud Detection: Constructing Features from Transaction Data. *MIS Quarterly*, 46(3), 1777–1792. <https://doi.org/10.25300/MISQ/2022/16103>
- Yuniasih, N., Muliati, N., Putra, C., & Dewi, I. (2020). *The Effect of Pressure to Financial Statement Fraud (Study of Manufacturing Companies Listed on The Indonesian Stock Exchange)*. <https://doi.org/10.4108/EAI.13-8-2019.2294390>
- Zhang, Z., & Ye, Z. (2022). The role of social-psychological factors of victimity on victimization of online fraud in China. *Frontiers in Psychology*, 13(December), 1–10. <https://doi.org/10.3389/fpsyg.2022.1030670>
- Zhao, S., Huang, Y., Chen, L., Wang, C., Li, S., Chen, L., & Pan, G. (2023). Loan Fraud Users Detection in Online Lending Leveraging Multiple Data Views. *Proceedings of the 37th AAAI Conference on Artificial Intelligence, AAAI 2023*, 37, 5428–5436. <https://doi.org/10.1609/aaai.v37i4.25675>