The Role of Artificial Intelligence in Enhancing the Performance of Judicial Officers

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Abstract

With the expansion of emerging technologies, particularly the remarkable advancements in the field of artificial intelligence, a fundamental transformation has occurred in the structure and functioning of many professions and executive domains. One of the most significant of these domains is that of judicial officers—especially the police—in the processes of crime detection, prosecution of suspects, apprehension of offenders, and the conduct of preliminary investigations. Given the duties and authorities of judicial officers as stipulated in the Iranian Code of Criminal Procedure, the utilization of intelligent tools can significantly enhance the accuracy, speed, and efficiency of their actions. The present article, focusing on the legal framework governing the duties of judicial officers, seeks to elucidate the capacities and functions of artificial intelligence in improving their operational and analytical performance, without engaging in comparative discussions or examining the roles of other governmental institutions. This study adopts a scientific-analytical approach grounded in legal and technical sources to examine the diverse applications of artificial intelligence in law enforcement and judicial processes. Among the most important functions of artificial intelligence in this domain are the analysis of crime-related big data, identification of criminal patterns, prediction of crime occurrence based on statistical data, intelligent interrogation based on behavioral and speech analysis, facial recognition and biometric matching, as well as the collection, processing, and validation of digital evidence. These technologies can reduce human error while contributing to more precise documentation of judicial officers' actions and enhancing transparency in preliminary investigations. Nevertheless, the application of artificial intelligence in criminal processes is accompanied by challenges such as the protection of privacy, safeguarding the rights of the accused, the evidentiary validity of algorithm-based outputs, the risk of data bias, and the necessity of human oversight. Therefore, the purposeful, regulated, and principled use of these technologies in accordance with the standards of fair trial constitutes a fundamental prerequisite for the realization of criminal justice in the digital age.

Keywords: Artificial Intelligence, Judicial Officers, Crime Detection, Preliminary Investigations, Data Analysis, Digital Evidence Collection

Received: 03 January 2026
Revised: 24 April 2026
Accepted: 02 May 2026
Initial Publish: 24 May 2026
Final Publish 01 September 2026

Citation: Kamali, A., Ashrafy, M., & Saeedi, Y. (2026). The Role of Artificial Intelligence in Enhancing the Performance of Judicial Officers. *Legal Studies in Digital Age,* 5(5), 1-8.

1. Introduction

The significance of the mission of judicial officers in the criminal justice process lies in the fact that, as one of the main pillars of maintaining order and security in every society, they bear the serious responsibility of detecting crimes, identifying and arresting offenders, and collecting the evidence and documentation necessary to prove criminal conduct. In this complex and multifaceted process, the role of judicial officers, particularly law enforcement institutions and the police, is central and fundamental. As the first link in the chain of response to crime, judicial officers are responsible for executing judicial orders and carrying out the initial measures required to clarify the various dimensions of the crime. The effective and efficient performance of judicial officers directly affects the speed, accuracy, and justice of criminal proceedings. Any negligence or weakness at this stage may lead to the escape of offenders, the destruction of evidence, and ultimately the failure to achieve justice. Duties such as attending the crime scene, collecting and preserving evidence of the occurrence of crime, questioning witnesses and informed persons, arresting suspects, and submitting accurate reports to the judicial authority are among the vital responsibilities of judicial officers. A deep understanding of these responsibilities and efforts to enhance their capacities within the framework of the law are therefore of considerable importance.

The necessity of using emerging technologies and artificial intelligence arises from the fact that, in today's world, which is referred to as the digital age and the age of information explosion, technologies are advancing at an extraordinary pace and have affected all dimensions of human life. Various organizations and institutions, in order to preserve their efficiency and effectiveness, are inevitably required to keep pace with these developments and employ emerging technologies. The judicial field, and especially the missions of judicial officers, is no exception to this rule. Traditional tools and past methods are no longer capable of responding to the complexities of modern crimes, the massive volume of information, and the rapid pace of change. Artificial intelligence, as one of the most powerful emerging technologies, offers unparalleled capacities in data analysis, pattern recognition, prediction, and data-driven decision-making. These capacities can play a significant role in improving the performance of judicial officers in all stages of crime detection, preliminary investigations, and even the identification and arrest of offenders. From analyzing the vast volume of data available in cyberspace to assisting in a better understanding of human behavior during interrogation, artificial intelligence has transformative potential. This article, with the aim of scientifically examining this potential, explains the role and applications of artificial intelligence in improving the performance of judicial officers in accordance with the current laws of the country (Mostafavi Ardabili et al., 2022).

In recent years, the world has witnessed fundamental transformations resulting from the continuous development of emerging technologies, particularly in the field of artificial intelligence; transformations that have affected not only human lifestyles and everyday activities, but also the specialized structures and processes of legal and criminal justice systems. Artificial intelligence, with broad capacities such as big data analysis, machine learning, natural language processing, recognition of behavioral patterns, and image and sound processing, has today become an essential tool in many domains. One of the most important areas that can benefit most from this technology is the field of activity of judicial officers; a field that, due to its sensitive role in crime detection, identification and prosecution of suspects, collection of evidence, and conduct of preliminary investigations, is regarded as the beating heart of the criminal justice system. On the other hand, the traditional structure of criminal conduct has undergone fundamental changes with the introduction of digital technologies. Cybercrimes, digital evidence, virtual identities, and complex methods of evading identification have created new challenges whose management and analysis have become extremely difficult through classical tools. In such a context, artificial intelligence can serve as a powerful auxiliary force and significantly enhance the operational, analytical, and intelligence capacities of judicial officers. By rapidly analyzing massive volumes of criminal data, identifying hidden patterns, predicting probable locations or times of crime occurrence, strengthening interrogation methods based on behavioral analysis, and providing accurate tools for extracting and examining digital evidence, this technology can bring about a revolution in the manner in which judicial officers operate.

The present introduction seeks to explain the theoretical foundations and practical necessities underlying the relationship between the criminal justice system and intelligent technologies, thereby preparing the ground for the main discussion of the article. By focusing on the legal duties of judicial officers within the framework of the Iranian Code of Criminal Procedure, and without entering comparative debates or examining the role of governmental institutions, this text seeks to show why the

intelligent and lawful use of artificial intelligence can be one of the most effective solutions for enhancing the quality of crime detection, increasing accuracy in preliminary investigations, and ensuring criminal justice in the digital age.

2. The Status of Judicial Officers in the Code of Criminal Procedure

Article 28 of the Code of Criminal Procedure of the Islamic Republic of Iran defines judicial officers as follows: "Judicial officers are officials who, under the supervision and instructions of the prosecutor, act according to law in detecting crimes, preserving traces and signs, collecting evidence of the occurrence of crime, identifying, finding, and preventing the escape or concealment of the suspect, conducting preliminary investigations, serving documents, and enforcing judicial decisions." Article 29 of the same law divides judicial officers into two categories: general and special officers.

The most important duties of judicial officers are performed at various stages of crime detection, arrest of the suspect, and conduct of preliminary investigations. These duties are carried out to collect reliable evidence and document the crime for final examination by the prosecutor and the court. The most important of these duties are as follows:

Crime detection: Judicial officers are required, upon becoming aware of the occurrence of a crime, to immediately take the necessary measures to preserve the crime scene, prevent the suspect from escaping, and prevent the destruction of evidence. This includes effective patrolling, examining public reports, and using intelligence sources to identify criminal activities.

Preliminary investigations: After the detection of a crime, judicial officers are responsible for conducting initial investigations. These investigations include collecting information and evidence related to the crime, questioning witnesses, informed persons, and the victim, as well as conducting the necessary inquiries from the suspect. Judicial officers must record the statements of informed persons and witnesses in writing and obtain their signatures (Ardabili, 2016).

Arrest of the suspect: Where sufficient grounds exist indicating that a specific person has committed a crime, judicial officers, while observing legal formalities and, where necessary, obtaining a judicial order, are authorized to arrest the suspect. In cases of flagrante delicto, judicial officers may also proceed with arrest without obtaining a judicial order; however, they are required to immediately inform the prosecutor of the matter.

Search and inspection: In order to detect crime and collect evidence, judicial officers may, upon obtaining judicial authorization, search homes, premises, objects, and persons. The purpose of these searches is to discover instruments and tools of crime, objects resulting from crime, or evidence related to crime.

Collection and preservation of evidence: Judicial officers are required to carefully collect, classify, and preserve all evidence and documentation related to the crime, including physical evidence, witness testimony, the suspect's confession, where properly obtained, and other documents. This evidence must be documented in such a manner that its validity is not undermined during the judicial process.

Preparation of reports: At the end of the investigations, judicial officers are required to prepare a complete and documented report of all actions taken, the evidence discovered, the statements of informed persons and the suspect, and the results obtained, and submit it together with the case file to the prosecutor. This report forms the basis for the prosecutor's decision to continue the proceedings or issue an order of non-prosecution (Abuzari, 2022).

3. Applications of Artificial Intelligence in the Investigations of Judicial Officers

3.1. Big Data

Today, the use of big data in the field of investigations conducted by judicial officers has become one of the important and emerging issues in judicial systems. A massive volume of information, including structured and unstructured digital data, has considerable potential to improve the accuracy and efficiency of judicial investigations. This technology can pave the way for a fundamental transformation in the criminal justice system; however, its implementation is not possible without considering legal, ethical, and infrastructural challenges and requirements. From the perspective of judicial officer investigations, big data can serve as a powerful tool for analyzing patterns of crime occurrence, predicting future crimes, and even identifying criminal networks. These data make it possible to analyze complex digital evidence, examine similar cases, and even track offenders with high speed and accuracy (Keyvanpour et al., 2021). For example, identifying areas that are more exposed to crime can help law enforcement increase security through preventive deployment. Moreover, the analysis of financial transactions and

banking data is highly effective in identifying economic crimes such as money laundering and tax evasion. Today, examples of such applications can be observed in practice. Conditional release decisions in more than half of the states in the United States are based on predictions derived from data analysis, used as one factor in determining whether an individual should be released from prison or remain incarcerated. In many jurisdictions across the United States, predictive policing has been launched: big data analytics is used to select streets, groups, and individuals for detailed and intensive scrutiny, because an algorithm identifies these places and individuals as having a high probability of crime occurrence. In the city of Memphis, Tennessee, a program called Blue CRUSH, which stands for crime reduction using statistical history, provides police officers with relatively precise information about where, within several blocks, and when, within a few hours on a specific day of the week, a crime is likely to occur. This system apparently helps law enforcement optimally target limited and scarce resources. Since the launch of this system in 2006, major domestic crimes and violent crimes have reportedly decreased by one quarter, indicating its effectiveness, although it does not practically establish causation (Tsamados & et al., 2022).

Nevertheless, the use of big data in Iran's judicial system faces multiple challenges. One of the most important issues is the absence of a clear legal framework for the use of sensitive data. In cases where data include citizens' personal information, the risk of violating privacy is very serious. In addition, the lack of advanced information technology infrastructure and the shortage of specialized human resources in the field of data analysis are among the other major obstacles.

Another challenge concerns the transparency and reliability of data analysis algorithms. In the judicial system, every decision must be based on reliable and logical evidence. If the algorithms used in big data analysis are not transparent or contain errors, they may lead to injustice or even violations of individuals' rights. This requires the enactment of strict regulations for the responsible use of data and algorithms.

From an ethical and legal perspective, training legal professionals and judicial officers to develop a deep understanding of the capabilities and limitations of this technology is essential. Judicial officers must understand that big data are auxiliary tools and cannot replace human judgment. Furthermore, the development of domestic systems compatible with Iran's culture and language, such as Persian-language processing tools, should be prioritized. Consequently, successful use of big data in Iran's judicial system requires measures such as investment in infrastructure, establishment of transparent laws, training of specialists, and strengthening of cybersecurity. Without these measures, the improper use of this technology may, instead of enhancing justice, lead to violations of citizens' fundamental rights and weaken public trust in the judicial system. This technology offers unique opportunities for improving criminal justice, but its use requires intelligent and comprehensive management.

3.2. Crime Prediction

One of the advanced tools of artificial intelligence is crime prediction, which plays a fundamental role in modern judicial systems. Based on the analysis of big data and behavioral patterns, this technology makes it possible to identify areas in which the likelihood of crime occurrence is high and helps judicial officers take preventive measures. Such a capability can reduce costs related to crime processing and enhance public security. By accessing a large amount of data and information about each citizen, based on information obtained from identity, personality, criminal record, and registration systems, as well as analyses derived from images of the individual in the city, daily life, lifestyle, and access to smartphones, artificial intelligence has reached objective and near-realistic predictions and identifications that can now be used to identify probable targets of police intervention and prevent crime.

These predictions are also used for planning police patrols, location-based policing, and identifying persons who are likely to become victims or perpetrators of crime, person-based policing, thereby contributing to crime and violence reduction policies.

Through artificial intelligence programs, the police can more easily monitor and supervise crime-prone areas, the probable behaviors of high-risk individuals, and offenders with prior records. The process of detecting offenders, pursuing them, monitoring and supervising by police, and conducting patrols has traditionally been highly time-consuming, exhausting, costly, and sometimes inefficient. This is particularly true with the growth and development of metropolitan areas and the spread of apartment-based and cybercrimes, where the traditional collection and analysis of data are not feasible and must be systematized. Artificial intelligence technologies are applicable in ensuring public safety and security, including surveillance cameras, drones, and predictive policing programs that identify indicators of probable crimes (Abuzari, 2022).

This technology, which is based on the principles of data mining and machine learning, analyzes past information and uses the results obtained to provide accurate predictions about future crimes. For example, in criminal investigations, predictive tools can analyze the behaviors of specific individuals or groups and thereby identify potential threats. This feature enables judicial officers to adopt a more active and preventive approach instead of reacting after the occurrence of crime. Nevertheless, the use of artificial intelligence in crime prediction also entails multiple challenges. First, legal issues related to the collection and analysis of personal data may lead to violations of privacy. Moreover, predictive algorithms, if trained on imbalanced or biased data, may reinforce social biases and inequalities. On the other hand, the ambiguity of legal responsibility in the event of algorithmic errors raises serious questions concerning justice and transparency in decision-making. In the context of Iran's judicial system, the use of crime prediction technology requires the development of technological infrastructure, specialized training of personnel, and the adoption of clear legal frameworks. Without these measures, the use of such tools may be exposed to risks of abuse or inefficiency. Particularly in a country such as Iran, where specific cultural and legal issues exist in relation to technology, localization of algorithms and their compatibility with domestic laws are of considerable importance.

4. The Use of Artificial Intelligence in Identifying and Arresting Offenders

Identifying and arresting offenders is another vital duty of judicial officers in which artificial intelligence can play a significant role. Some artificial intelligence algorithms used in crime prediction and warning systems, by analyzing historical crime data, demographic and economic information, and even environmental data, such as weather conditions or social events, are capable of predicting the probability of crime occurrence at specific times and locations. These systems, known as predictive artificial intelligence, can assist the police in allocating resources, increasing patrols in high-risk areas, and consequently preventing crime. Of course, these predictions are based on statistical patterns and should not be regarded as certain, but they can serve as a guiding tool (Sheykhvand et al., 2023). Intelligent field assistants for police officers, such as smartphones and tablets equipped with smart applications, can function as field assistants for police personnel. These assistants can quickly access database information, such as individuals' records, vehicle information, and monitored locations, and provide the necessary information in real time for identifying and dealing with suspects. These assistants can use artificial intelligence capabilities to rapidly analyze information, offer recommendations, and even assist in documenting reports at the scene. For example, an officer can use a facial recognition system on a mobile phone to verify the identity of a suspect in less than a few seconds.

Tracking and identifying the faces and identities of suspects through artificial intelligence, as noted in the discussion of computer vision, can be highly effective through facial recognition technology and the analysis of behavioral patterns, such as gait or hand movements. Advanced surveillance systems equipped with artificial intelligence can continuously monitor closed-circuit camera images and immediately issue alerts if a wanted person is detected. Furthermore, the analysis of location data, such as mobile phone location history, through artificial intelligence algorithms can help determine whether the suspect was present or absent at the time and place of the crime (Karamzadeh, 2021).

5. Challenges and Limitations in the Use of Artificial Intelligence for Judicial Officers

Despite its considerable advantages, the use of artificial intelligence in the field of activity of judicial officers is accompanied by challenges and limitations that must be considered for the proper and responsible utilization of this technology. Although intelligent technologies can increase the speed and accuracy of processes related to crime detection and evidence collection, the absence of appropriate infrastructure, legal and ethical challenges, and technical limitations may obstruct the effective use of these technologies. One of the most important challenges in this area is the protection of citizens' privacy. Artificial intelligence-based systems for analyzing and predicting criminal behavior usually require large volumes of data. These data may include individuals' personal information, surveillance camera images, communication data, and other sensitive information. If adequate legal and supervisory frameworks do not exist for the collection, storage, and use of these data, the likelihood of violating individuals' privacy increases. Therefore, the use of artificial intelligence in the field of activity of judicial officers must be carried out within the framework of specific laws and with respect for the principles of citizenship rights (Keyvanpour et al., 2021).

Another challenge concerns algorithmic bias. Artificial intelligence systems operate on the basis of the data used to train them. If training data contain bias or imbalance, the results produced by these systems may also be unfair or discriminatory. For example, in some cases, crime prediction algorithms may, due to incomplete or biased data, place certain social groups or specific areas under greater suspicion of criminal conduct. Such a situation can create public distrust toward the criminal justice system and may even lead to a violation of the principle of equality before the law.

Another important limitation is excessive dependence on technology. If judicial officers rely on the results provided by artificial intelligence systems without careful evaluation and without human oversight, incorrect decisions may be made. Although artificial intelligence is a powerful tool for data analysis, it cannot fully replace human judgment. In many cases, the circumstances and details of cases require human analysis and an understanding of social and cultural contexts that algorithms are not fully capable of identifying.

The issue of legal responsibility is another major challenge in the use of artificial intelligence. When an intelligent system is used in the process of crime detection or evidence analysis, the question arises as to who will be responsible if an error occurs or incorrect results are produced. Does responsibility lie with the designers of the system, the institutions using it, or the judicial officers who rely on its results? The absence of a clear answer to this question can create numerous legal and practical problems and demonstrates the necessity of adopting specific regulations in this field.

From a technical perspective, limitations also exist. Many artificial intelligence systems require high-quality data, advanced infrastructure, and significant computational resources in order to function accurately. In some administrative or judicial systems, such infrastructure may not be fully available. In addition, the continuous maintenance and updating of these systems is costly and requires specialized human resources. The absence of such facilities can reduce the efficiency of these technologies. Another challenge concerns information security. The data used in artificial intelligence systems often include sensitive information related to judicial cases, individuals' identities, and evidence of crime. If appropriate security measures are not adopted to protect these data, the likelihood of cyber intrusion, data manipulation, or disclosure of confidential information increases. Such incidents can have serious consequences for judicial proceedings and public trust in the justice system (Mortazavi, 2023).

In addition, organizational and cultural resistance can also constitute one of the barriers to using artificial intelligence in the activities of judicial officers. In some cases, personnel and judicial officers may feel concerned about or distrustful of new technologies and prefer to use traditional methods. This issue indicates that, for the successful implementation of intelligent technologies, in addition to providing technical infrastructure, special attention must be paid to training, cultural preparation, and trust-building among users. Ultimately, it must be noted that artificial intelligence is an auxiliary tool for improving the efficiency of judicial officers, not a complete substitute for them. Successful use of this technology requires establishing a balance between benefiting from technical capacities and preserving legal and ethical principles. The adoption of appropriate laws, precise supervision of system performance, user training, and the establishment of technical and security infrastructure are among the measures that can help reduce existing challenges and limitations. Only under such conditions can the capacities of artificial intelligence be used effectively and responsibly to improve the performance of judicial officers (Mortazavi, 2023).

6. Conclusion

With the expansion of emerging technologies and the entry of artificial intelligence into various spheres of governance, legal systems have also become compelled to adapt to these developments. One of the areas that can significantly benefit from the capacities of artificial intelligence is the performance of judicial officers. As the executive arm of the judiciary in crime detection, evidence collection, preservation of the crime scene, and enforcement of judicial orders, judicial officers play a highly sensitive and decisive role. Given the increasing complexity of crimes, the growing volume of cases, and the expansion of cybercrimes and organized crime, the use of intelligent tools can significantly enhance the quality, speed, and accuracy of the performance of this institution. The findings indicate that artificial intelligence is not only capable of facilitating traditional processes, but can also provide new methods for crime prevention, detection, and analysis.

One of the most important functions of artificial intelligence in the field of activity of judicial officers is the analysis of extensive and complex data. In contemporary judicial systems, a very large volume of data is generated, including reports, images, videos, criminal records, communication information, and other crime-related data. Processing such a massive volume

of data through traditional methods is time-consuming and prone to error, whereas artificial intelligence-based systems can identify hidden patterns within a short period of time and provide valuable information to judicial officers. Such a capability enables the crime detection process to proceed more rapidly and reduces the likelihood of error or loss of evidence. In addition, artificial intelligence-based predictive analysis can help identify areas or conditions prone to crime and provide the possibility of better planning for crime prevention.

On the other hand, artificial intelligence can also play an important role in documenting and managing evidence. Accurate recording and preservation of evidence is one of the major challenges in the criminal adjudication process. Intelligent systems can automatically record, classify, and analyze data related to the crime scene and can even assist judicial officers in detecting the authenticity of, or manipulation in, digital evidence. The use of technologies such as facial recognition, image analysis, natural language processing, and voice analysis can be effective in identifying suspects, examining statements, and analyzing relationships between individuals. If used properly, such tools can increase the accuracy of preliminary investigations and improve the quality of case files referred to judicial authorities.

Nevertheless, the use of artificial intelligence in the field of activity of judicial officers is not limited to advantages and is accompanied by challenges that must be addressed. One of the most important challenges is the protection of citizens' privacy. The extensive use of intelligent systems for data collection and analysis may, in the absence of appropriate legal frameworks, lead to violations of individuals' fundamental rights. Therefore, it is essential that the use of these technologies be carried out within transparent legal frameworks and under precise supervision in order to maintain a balance between the efficiency of the criminal justice system and the protection of citizens' rights. Moreover, accountability in decisions based on artificial intelligence is another important challenge, because legal decisions must ultimately be made under human supervision and control, and full responsibility cannot be delegated to intelligent systems.

Another challenge relates to algorithmic bias. If the data used to train artificial intelligence systems are biased, the results produced by these systems may also be unfair or discriminatory. In the field of criminal justice, which directly concerns the fundamental rights and freedoms of individuals, such errors can have serious consequences. Therefore, the design and development of artificial intelligence systems must be carried out carefully and with due regard for the principles of justice, transparency, and accountability. It is also necessary to establish mechanisms for continuous evaluation and supervision of the performance of these systems.

From a legal perspective, the introduction of artificial intelligence into the field of activity of judicial officers requires reconsideration of certain existing laws and regulations. Current laws have largely been drafted on the basis of traditional methods of investigation and evidence collection and may not adequately respond to the challenges arising from emerging technologies. Therefore, the legislature must adopt a forward-looking approach and develop appropriate legal frameworks for the use of artificial intelligence in criminal processes. These frameworks must be designed in such a way that, while benefiting from technological capacities, they prevent abuse and violations of individuals' rights.

Training and empowering judicial officers in the use of emerging technologies is also of special importance. The mere existence of advanced tools, without sufficient familiarity and skills among users, cannot lead to improved performance. Therefore, specialized training programs must be developed for judicial officers so that they can use artificial intelligence-based systems correctly and effectively. These training programs should include not only technical aspects, but also familiarity with the legal and ethical considerations involved in the use of this technology.

Ultimately, it can be stated that artificial intelligence has the capacity to become one of the most important tools of transformation in the criminal justice system. The correct and purposeful use of this technology can increase the speed of crime detection, enhance the accuracy of investigations, reduce operational costs, and improve the quality of judicial proceedings. However, the realization of these goals requires the establishment of appropriate technical infrastructure, the adoption of transparent laws and regulations, continuous supervision of system performance, and the training of human resources.

Overall, the future of the criminal justice system is increasingly intertwined with intelligent technologies, and judicial officers, as one of the main pillars of this system, must adapt themselves to these developments. The use of artificial intelligence can create significant opportunities for enhancing efficiency and transparency in judicial processes; at the same time, however, it requires careful management of its challenges and risks. If this technology is employed with a responsible, lawful, and justice-oriented approach, it can play a significant role in realizing the objectives of the criminal justice system, namely discovering the truth, administering justice, and protecting citizens' rights.

Ethical Considerations

All procedures performed in this study were under the ethical standards.

Acknowledgments

Authors thank all who helped us through this study.

Conflict of Interest

The authors report no conflict of interest.

Funding/Financial Support

According to the authors, this article has no financial support.

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