Refined Execution of Courts based on Big Data and Artificial Intelligence

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Abstract. By promoting the change of big data execution thinking, it will accelerate the integration of traditional execution and digitalized execution, and use digitalized execution to promote autonomous execution. According to the address data of taxi-hailing apps, Taobao receiving, navigation software and the like combined with mobile phone APP positioning information, the place of residence, business, frequent access and real-time location of the executed person are determined, and combining the electronic delivery method of big data, the problem of finding the executed person will be solved.

Keywords: Difficult Execution, Big data, Artificial intelligence, Property Monitoring and Control Introduction.

1. Preface

The reasons why people's courts are currently “difficult execution" are comprehensive. First of all, the current credit environment in our country determines that the credit system of our country is not perfect, and the proportion of the executed person's independent performance of legal instruments is not high, resulting in the need for courts to input a lot of manpower, material resources and financial resources in executing cases. Secondly, the power of the court's executive department is relatively limited. When inquiring about, freezing, detaining and transferring certain property, they often encounter various implementation difficulties. The concealment and hidden of the property actually held by the person being executed cannot be investigated and controlled properly, thus affecting the effect of full implementation.

How to quickly and conveniently grasp the information of the executed person is the key to improve the efficiency of judicial execution. The seemingly random and untraceable information data, in fact, unconsciously record everyone's behavior consciousness all the time, and these massive data are stored in the information database of various behavior paths. These information bases are seemingly unrelated but connected to each other. The long-term accumulation of raw data has in fact created a large database of personal information, and the huge data value it contains is revolutionary for implementation. Through such a database, the behavior consciousness of the executed person can be outlined and the data “portrait" can be made, and “invisible person" and "hidden property" can also be traced and found. In order to solve the problem of " difficult execution" in the era of big data, we need to carry out reverse thinking on the basis of the traditional path, change from the traditional " passive search" to the " active transmission" of data-based execution mode, and use the effective data captured by Internet crawler software to open up a brand-new, efficient, convenient and unique digital execution path, thus creating a brand-new road and era for court execution.

2. The Execution of the Concept of Data and Changes of Thinking

The so-called databased thinking refers to a specific thinking mode in which the data stream is divided into several units and modules according to different analysis results and certain rules, and then reasonable results are further logically deduced through its data conclusions. In intelligence work, it is necessary to fully draw lessons from big data thinking, expand the sources of intelligence information and actively promote the sharing of intelligence data resources. The distribution of data relations, the design of databases, the development of data software and the sorting of data hardware all need to be carried out under the strict layout of data logic structure. At the same time, databased

thinking can be applied to all aspects of databased execution, such as the deduction of capital flow direction and the path judgment of property transfer, etc. in intelligent algorithms of core difficulties in execution problems, so as to establish and realize self-ordering and management of multifarious mass data according to established storage and processing rules. Different types of property clues can be compared, analyzed and judged with the execution model established by databased thinking, and can be circulated, exchanged and self-verified in network exchange. The executor can finally independently judge the possible problems of the executed person's activity track, capital flow direction, hidden property and the like according to the data report independently deduced by the artificial intelligence, and finally make real-time, scientific, data-based and accurate research and judgment results and execution schemes, so as to ensure the final solution of the difficult execution problems.

Starting from the top-level design, big data execution is suggested that on the basis of the construction of court informatization, the development plan of big data for court enforcement should be specifically studied and formulated. The implementation should be guided by the core difficult issues, targeted by the implementation needs, closely linked with the actual difficulties faced by the courts in the implementation, and fully realize the institutionalization of big data sharing. Big data execution needs to break the limitation of court area and level and realize the sharing and intercommunication of all court execution data. This is not only of great significance to the entire court execution system, but also will build a data communication platform with wider coverage to realize the sharing of data and experience in execution.

3. The Fusion Transformation of Traditional Execution and Data Execution

3.1 Data Mining and Analysis of the Real Property Status of the Executed Person.

The traditional property reporting system of the person subjected to execution is often a mere formality, and the examples of blank reports, false reports and even concealment of reports by the person subjected to execution are common. At this time, big data query can play its unique value and role. The data analysis of the real property and economic ability of the executed person is the most important part of the data execution work, and the analysis and mining of the distribution composition and flow direction of all the cash flows of the executed person is an indispensable part of the whole involved property information. The execution department can not only execute the inquiry from the network, but also analyze and construct the final trend of property circulation by using data such as consumption data, transfer information, transaction objects, etc. At the same time, relying on the online and offline platforms such as major Internet companies, UnionPay judicial assistance system and anti-money laundering center can conduct investigation and control and data collection on funds such as large-sum transactions and suspicious funds, outline the fund transfer relationship from massive data, and then conduct comprehensive analysis and judgment on the data such as fund transfer and property transfer path involved with the case through professional graphical clue analysis tools, deduce a complete and clear distribution map of the transferred property structure, thus determining the destination of the transferred property, and understanding the real property status of the executed person.

3.2 Expand the Sources of Property Information Investigation and Control for Data Execution

One is to deeply integrate the channel data resources of the existing network execution check and control system, apply professional and technical means to carry out cross comparison, outline the execution clue information, and draw a portrait of the execution property information. At the same time, actively use commercial software and mobile phone APP software to query, supplement and improve the sources of property clues, build up the thinking of data-based information query, and improve the information capability of implementing judges to query property by means of information. Second, further promote the execution cooperation with the data-based property registration department, optimize the execution resource information base, and establish a fast query

channel for execution information; Third, in view of the changes brought about by the economic development and the reform of the financial system, it's necessary to focus on collecting implementation information in the field of Internet finance and screening and digging out implementation clues. Therefore, only on the basis of a deep understanding of the technological revolution brought about by technological developments such as the Internet revolution, artificial intelligence, big data, cloud computing, block chain, etc., and the technological value and significance to the implementation work, can new technological means be thoroughly applied to help solve the dilemma of " difficult execution".

3.3 Implement Cash Flow Data Monitoring and Control Analysis

On the basis of professional enforcement techniques and tactics such as case analysis, data analysis and property verification, it can integrate property data and information resources to enhance the overall ability of the people's courts to carry out joint operations with multiple departments. From the traditional property check to cash flow check, because the generation, transfer, change and elimination of property are initiated by the behavior of the person being executed, only focusing on the change of data-based property often results in fragmented and localized review results, while ignoring the change of attention to the control behavior of the whole property fund flow of the person being executed. Therefore, it is possible to change from property check to cash flow check, and find the execution property in reverse through the change of cash flow. Through the network execution check and control system, tax registration system, industrial and commercial registration system, insurance information unified platform, public utility information platform, etc., the fund account of the executed person is queried and the data is analyzed and judged. For the fund accounts with key doubts, it's necessary to go to the opening bank to analyze the cash flow through the historical statement. Special attention should be paid to the investigation of suspicious capital flow accounts. It's necessary to sealed up and frozen the third- party accounts that do help the person being executed to transfer property or conceal income, and disposed of it after further investigation and verification.

4. The Boosting of Date Execution to Autonomous Performance

In the past, most of the enforcement methods relied on the application for enforcement or the court's initiative to inquire about property clues to investigate the property of the executed. Through the investigation of the seized executable property, it is sealed up and frozen to finally realize the executed property until the execution of the case is finally completed. In the execution, the biggest difficulty is to find the property concealed or transferred by the person being executed. Due to their dissatisfaction with the judgment results or their laches, the executed of most enforcement cases is often unwilling to take the initiative to fulfill their own payment obligations under the effective judgment documents. Therefore, it is necessary to enforce the law by means of application for enforcement or court search, but these two methods are often inefficient and easy to fall into a situation of nothing. Although the person subjected to execution is unwilling to take the initiative to perform legal responsibilities, in modern Internet life, they are continuously providing various real-time and effective personal information to various network companies, including travel information such as location, address, track, hobbies, interests, concerns and other personal characteristic information, and even the most important personal property information such as insurance, social security, real estate, vehicles, bank cards and the like. This information will be received and stored in the large database of a certain network company in the form of data, forming a distributed and valuable property data cloud uploaded by the person subjected to execution. However, the court has the ability, authority and obligation to find these scattered data clouds and integrate them into a complete three-dimensional holographic image of the person to be executed, so as to find data-based property that can be executed.

5. Main Steps of Data Execution

5.1 Organize and Summarize

Combined with the execution purpose and the implementation focus, the collected property clue information can be highly integrated and deeply processed. According to different modules such as comprehensive information, case information, subject information, address information, economic status information, property information, and transfer information, the collected property clue information can be divided into easy to summarize and analyze.

5.2 Analytic Judgment

According to different requirements and standards, the value of property clue information is classified and rated from three-dimensional dimension (correlation, trajectory, and quantification), time dimension (instantaneity, instantaneity) and formal dimension (formalization, Realizable) of property clue information. Or according to the personnel elements, property elements, program elements, organization elements, space elements and time elements, etc., the elements constituting the clue information are decomposed, and then the clue information is circulated, distributed and recombined according to the needs and application levels of the clue information in different execution stages, so that the originally seemingly worthless data can form common characteristics under a certain classification, reflecting the fundamental track and final path of property transfer. (a) Use the information resources held by the data and property registration departments of banks, telecommunications, insurance, civil aviation, social security, postal services, etc. to grasp the latest developments and changes of the executed person. For example, financial institutions can be used to inquire about the basic information of individual and company accounts, as well as information on the amount of funds and capital flow. Industry and commerce departments and stock exchanges can master information on enterprise operation, financial audit reports, issued stocks and bonds, etc. (b) Play the role of information collection of social intermediary organizations. Through the service information of intermediary organizations such as trade associations, law firms, accounting firms, tax agents' firms, real estate intermediary companies, asset appraisal agencies, etc., the data information on human, financial and material aspects related to the implementation work can be obtained.

5.3 Serve Reality

On the basis of implementing information technology, for major cases in the field of enforcement, the court can use data tracking, analysis and comparison methods to analyze and investigate property clues from the direction of the property involved, expand the possible hidden channels of concatenated and digitized property, and dynamically obtain evidence of illegal transfer and hidden channels of the property involved, so as to provide reliable property clues services for the execution of the case.

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