Research on Social Security Innovation Decision Making Mechanism based on Data Mining Platform

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Abstract
With the development of information technology, neural networks and data mining have become an effective tool for social statistical analysis. In this paper, the authors analyse the social security innovation decision making mechanism based on data mining platform. The authors put forward the aims and principles of the innovation of social security management system. The path of social security management system innovation should be carried out in accordance with specific organizational framework and supervision mechanism. First of all, we must unify the system, at the same time; make clear the functions of the various departments of the government and their relations. On this basis, the government need integrate the resources of the existing social security administration.

Key words: Data mining, Neural networks, Social security, Decision-making mechanism

1. INTRODUCTION

Innovation is to make the state retain forever the vitality of life theme throughout the world, the social security management system in the world has undergone major changes in the reform, gradually to the high-tech platform, will focus on quality, efficient management, people-oriented, service first as its core content, therefore touch and stimulate the innovation of China's social security management system. The allocation of social security resources in China is unfair and unbalanced in structure. While pursuing rapid economic growth, it also brings a lot of negative topics and consequences to society. The establishment of a socialist harmonious society, to the sustainable development of social security, innovation cannot do without social security management system, social security is a kind of economic resources, social security, fairness, service concept, efficiency concept, social security management system China will trigger a new round of innovation research.

Social security needs two lines of revenue and expenditure management, and constantly improve the social security budget, which has been with the social security system reform deepening and put on the schedule, to prevent arbitrary collection of fees, strengthen the supervision of funds, social security expenditure, improve the ruling ability, become a new topic in the new period. The financial management of the social security fund, the management of the civil affairs and the management of the health service, in particular, highlight the secret of financial wealth. The effectiveness of management is to greater social security into saving economy, in order to provide more public products and public services for the society, so that more enjoy equal opportunity of social security rights of every citizen, and more widely to meet the public's demands for legal and social expectations. Social security management system innovation to from a new perspective, using scientific methods to study the social security of our country, through the analysis of the goals and principles of social security management system to choose the path of innovation, in order to achieve the coordination and benign social security system.

2. APPLICATION OF DATA MINING THEORY

2.1. Neural Network

BP network is currently the most widely used the basic thought of the most intuitive multi class error back propagation neural network. It is with three or more than three layers of hierarchical neural network. Between the layers of neurons to achieve full connectivity, and each layer of neurons in the network is not connected, the network by way of a mentor to learn. At present, in practical applications, the vast majority of the BP model is the use of BP network and its change form, it is the core of multilayer feedforward neural network, and reflects the most essential part of neural network. BP network is mainly used in the fields of pattern recognition, image processing, system identification, function fitting, optimization computation, optimal prediction and adaptive control.
Standard BP algorithm refers to the learning algorithm of BP network. BP network learning by the composition of the four processes:

- input mode from the input layer to the output layer through the middle layer of the "mode" process;
- the difference between the desired output of the network and the actual output of the network by the output layer through the middle layer to the input layer by layer layer by layer to correct the connection error back propagation process;
- from the "mode" and "error back propagation" repeated alternate network "memory training" process;
- The convergence of network convergence is the process of "learning convergence", which is the minimum of the global error of the network.

The basic idea of the standard BP algorithm is a learning algorithm based on least squares, or LMS algorithm is and it using gradient search techniques, in order to enable network to the actual output and the expected output error square and minimum multilayer network BP learning algorithm, in the forward propagation, signal input, from the input layer through the hidden layer by layer treatment, and passed to the output layer, each layer of neurons affects only under a layer of neurons. If the output layer cannot be expected output, then transferred to the reverse propagation, so that the error signal along the original connection path to return, by modifying the weights of each layer of neurons, so that the minimum error signal.

2.2. Data mining

Data mining from the narrow sense refers to the extraction of knowledge from the database. Specifically in the database, the data is processed, so as to obtain the implicit, unknown and potentially useful information. Data mining consists of many steps: from large databases to obtain the data; selecting appropriate feature attributes; choose appropriate sampling strategy; data to eliminate abnormal data and complement the insufficient part; with appropriate dimension reduction and transform the data mining excavation process and data model to adapt or matched; identify whether the knowledge you need to get the letter, or visualization and with existing knowledge combined is from data to knowledge is the only way to compare these steps, each step may be the key to the success or failure. In general, data mining is a part of knowledge acquisition.
3. SOCIAL SECURITY MANAGEMENT SYSTEM FUNCTION

3.1. Social security management system and its type

Social security management refers to the process of planning, organizing, coordinating, controlling and supervising various social security affairs by means of certain institutions and procedures, taking certain ways, means and means. Social security management is born with the establishment of social security system, and is an inevitable outcome of the specialized division of labour in modern social management. Under the impact of globalization, social security management has become a basic social management function of the government. Law, institution and administration are the three major means to realize, and management institution, function definition and management mode are the foundation and core of the three means of establishment, maintenance and operation. In other words, social security management system is the core of social security management.

The social security management system involves the legislation of social security, the specific rules and regulations and methods of social security implementation, the various aspects of the social security system, such as the establishment of institutions and their functions and powers. Its central content is the establishment and function division of social security management institutions, whose main objective is to ensure that the state social security system, policies and laws can be implemented fairly and effectively, and maintain social stability. However, the social security administration itself cannot be equated with the social security management system. In the process of establishing the new system of social security in China, the reform of social security management system is of vital importance. If it fails to straighten out the relationship between the various elements of the management system of social security, for the reasonable social security policy and social security management mechanism will be impossible, and the implementation of social security policy will inevitably appear low efficiency, high cost of management problems; at the same time, the social security administration department of the executive power would also be because of the loss of effective supervision and abuse. Therefore, the reform and improvement of our social security management system should be the core content of China's social security system construction.

Under the influence of political economic system, historical cultural tradition and other social factors, different countries have established different social security management system.

- **Government management mode:** First, the government should undertake to enact social security policy and law responsibility, determine the scope of implementation of social security and the protection of objects, shall enjoy the basic conditions of social security, expand the sources of social security funds, to pay and payment standards, improve the management method, the definition of social security related responsibilities, obligations, rights, correct implementation inspection and supervision of social security policies and decrees, accept the relevant social security appeals, mediation and ruling disputes and so on.

- **Social group management model:** Also called "semi official self-government" management system, which is responsible for coordination of national social security affairs agency established by the government, and the implementation of unified supervision, and semi official, non profit organizations or institutions of social security management area to implement social security management work specific. Social organizations are generally composed of representatives of both sides of labor and social security committees or councils, foundations, boards of directors, associations, etc.

- **Commercial insurance management model:** This management system is based on the social security fund in accordance with the basic principle of complete accumulation "raising and operation, which is
a kind of mandatory deposit insurance in the implementation of supervision of the competent department of social security of the government, using the fixed income support the fund accumulation, which is in accordance with the fixed payment rate collection of insurance fund. Then the fund into the capital market, the independent with semi official or private property fund for investment operations, increases the value of the fund.

3.2. Function of social security management system

Function generally refers to the beneficial effects of things or methods, and emphasizes the positive significance of things or methods. The function of social security management system also refers to the positive role played by the existence and value of social security management system, the implementation of the reform and open policy, exists in people’s lives is the social structure under the planning system, the unified model, in this model, a citizen or directly attached to the government, or dependent on the the unit directly attached to the government; choice of interests between them because of this attachment in the form of performance was highly consistent. In the process of social security institutionalization, the government has to begin to relax the power that had been firmly held in its hands, and recognize the interests and values of protecting enterprises, social organizations and citizens. This unified social structure began to disintegrate, instead of the social interest structure diversification; not only social interaction between individuals can be accomplished by the autonomous organization and the main body of the market, but the government did not need to share all the implementation of control and management.

The reform of the social security management system of our country is in the lower level of productivity, the degree of economic development is not high, the backward technology and other conditions, governments at all levels have played a leading role in promoting the social security system in the process of. In the past thirty years since the reform and opening to the outside world, the degree of institutionalization of social security has been remarkably improved. The corresponding function of social security institutions and social security has also undergone obvious changes. At the macro level, the government began to use economic and legal means to regulate the operation of social security funds, adjusting the structure of social security mechanism, realize the transformation of the mode of social security management; at the micro level, the social security management mechanism reform of social security management mode, reform has become an important part of social security reform. The continuous adjustment of social security management system has adapted and effectively promoted the development of social security system.

Sustainable development is an important content of social security system, social security and sustainable development is an important part of Chinese social economic development strategy, it is rich in content, strong policies, and political and economic reform are inextricably linked. Study on social security basic idea and principle of sustainable development, the establishment of social security sustainable development a series of scientific methods and theoretical system, level and scale to measure sustainable development, maintain financial stability, promote Chinese can be targeted, healthy and orderly development of social security.
4. THE SOCIAL SECURITY MANAGEMENT SYSTEM INNOVATION DECISION-MAKING

4.1. The target of the innovation of social security management system in China

The social security management system and the various influencing factors in consideration of economic goals, perplexing, full employment behoove relieve the sustainable development of social security burden, through the tax system reform, allocation of factor of production system reform, social security reform of the distribution system, transfer payment policy to reduce the gap between rich and poor are important measures. With the development of socialist market economy according to the requirements for the establishment, reform of the social security management system in China is to establish the target based on system construction, organization construction as the focus, to ensure the efficient and fair legal construction, for the characteristics of the social security management system, complete mechanism and a sound legal system, unified coordination, concise, management and service socialization.

1) Socialization of social security management: The establishment of a unified government organization, specialized agencies, responsible for management and financing of various sources of social security management system is the common trend of the development of social security management system in the world. Its contents include: the socialization of organizational structure, and more and more social semi autonomous or autonomous groups and non-profit organizations have entered the centralized administrative system of the government or social security departments or specialized agencies. Managers of social mobilization, the national strength, not only the relevant units and individuals to participate in the management of the protected object, should take up social security supervision organization management responsibilities, give full play to the role of social forces in the process of social security management, supervision and service. The financing channels of socialization, social security funds in various government units, individuals and other social aspects, rather than by the government and units turnkey.

2) The scientific management of social security: Social security involves a wide range, many objects and services, and its business is strong, which determines that scientific and professional management must be carried out. In modern society, scientific management means the realization of the management of information and networking, the use of computers to collect and process data, to develop planning and planning, and by a dedicated high-level personnel responsible for this work.

3) Systematization of social security management: The systematization of social security management system mainly includes the following two aspects: the integrity of the system. The complete social security system should have a comprehensive structure of social insurance, social welfare and social assistance, and the contents of each project should be complete. Systematic order. Social security project management not only to establish the corresponding management organization, classification management, and to set up a unified management and coordination of the Department in the center, establish scientific and reasonable management mechanism in the relationship between, to achieve coordinated and unified inter agency.

4.2. The principle of social security management system innovation

At present, the innovation of China's social security management system should be based on the reality of our country as the fundamental starting point, summing up the development process of social security management system since the founding of the experience and lessons of the Party Central Committee to build a socialist harmonious society theory as the basis, in accordance with the development of the socialist market economy, enhance the comprehensive national strength requirements for. The essence of modern social security is a highly social redistribution. This determines the necessity of social management of unified leadership in social security. First of all, the scope of modern social security are all members of the society, widely and closely relates to all sectors of society, various groups of interests, only the organization operation and management to countries directly involved in the form of the income distribution policy of the government, regulating the interests of all parties, in order to achieve the goal of social equity. Secondly, the national economic and social development goals, the financial and economic situation, economic management system and labor wage system, and many other factors often affect and restrict the formulation of social security system, social security policy, so it must be run by the national unified leadership, operational manoeuvring to ensure social security policy comprehensively reflect and satisfy the constraints factor requirements. Thirdly, modern social security takes social insurance as the core, and the majority of laws required to raise and adjust social security fund in the most extensive social scope. The greater the scope of co-ordination and adjustment, the greater the risk of investment diversification, the ability to sustain social losses will become stronger and stronger. In order to realize the maintenance and appreciation of the social security fund and the large-scale co-ordination and adjustment fund, the unified leadership and centralized management standards must be implemented.
Along with the social productivity of the high degree of specialization, globalization of market competition, the rapid development of science and technology and the sharp reduction in energy and a series of problems, led to the trend of the economic activities of the enterprise single and specialized, which requires the social security work from the enterprise management is separated by the society to undertake its functions, in order to enterprises to better concentrate on its production and operation, improve the market competitiveness. Above on this, set up by the government centralization, social management system of unified leadership and management, has become the inevitable trend of the development of social security in the world. Naturally, the improvement and innovation of our social security management system must also conform to this historical trend, and implement a unified leadership and unified management system. In terms of unified leadership requirements include: the implementation of social security management policies should be unified, which must formulate a unified national social security management policies by social security departments of the central government, all localities and departments and units can not separately, lack of coordination, we must earnestly implement the central spirit and indicator. The central government should formulate a unified policy to deal with the income from social security funds, and strictly implement the relevant expenditures in accordance with the unified regulations of the state. The planning and budget of social security management should be unified. Social security budget is an important content of social security management, is the basic social security plan of the country, and all social security income and expenditure should be accurately included in the social security budget. At the same time, all regions and departments should, according to the approved social security budget, actively organize revenue and make reasonable arrangements for expenditures so as to ensure the realization of the tasks of the state social security. Social security management system should be unified. Social security system is the embodiment of the policy and policy of social security management, and also the important basis and guarantee for planning the social security budget and supervising and managing social security. The main rules and regulations of the social security administration in the country, such as the social security budget system and the financial system, should be formulated by the central government, and the localities and departments must conscientiously carry out the work and strictly act in accordance with the rules and regulations.

4.3. The way of social security management system innovation

Social security management system innovation should be in accordance with the social security activity specific organizational structure, technical support, market operation, supervision mechanism, property rights realization form, policy tools, financial and other aspects of selection process. On social security things unified, unified planning, unified policy, unified deployment, unified leadership by the functional departments under the jurisdiction of the central government and social security, and by all levels of government social security specialized agencies of the unified management of social security funds and social security, and effectively unified standards and collection of the social security fund, unified society security fund operation and supervision management.

First of all, we must unify the system. The party organs, state-owned enterprises and institutions, mass organizations, collective enterprises, foreign-funded enterprises, private enterprises and employees as well as migrant workers and peasants into a unified social security system, and gradually establish a coverage of all members of society, all workers, the system integration of the social security system. At the same time, make clear the functions of government departments and their relations. Integrate the resources of the existing social security administration, establish the state social security department at the central government level, and
conduct unified administration of the social security affairs throughout the country. The Department of social security in accordance with the "big department" in the form of design, to co-ordinate the national urban and rural social security, unified management of institutions, enterprises, organizations and individuals of the social security and social welfare, social insurance, social relief, special care and placement, housing security and other charitable cause.

5. CONCLUSIONS

The management system that maintains the smooth operation of China's social security system must be innovated with the changes of China's national conditions during the transition period so as to meet the needs of reform and development. The rationality of social security management system determines the fairness of social security and the effectiveness of its operation. This paper attempts to the concept of social security management system. A detailed interpretation of the perfect market economy system determines the western government's main function is to develop the social security system structure and operation rules, is mainly responsible for the social security legislation and through legal means of adjustment, or even direct way through judicial precedent correction of the parties involved in the responsibility and social security obligation. The specific matters of social security the government generally does not intervene in the enterprises and individuals, the management system reform and perfect, fully embodies the rationality and innovation of combining the concept, has a very important significance to the social security management system in China's development and perfection. Aiming at the above problems, the author puts forward the objectives and principles of social security management system innovation, such as unified leadership, classification management, separating business separate, balanced, complete legal system construction, innovation path design of social security management system.

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