

## **Review of Pension Service Document Intelligent**

**Chao Li**

**Zhixin Liu**

Shanghai University of Engineering Science  
Shanghai, China 201600

### **Abstract**

*China is entering an aging society, in recent years, China's aging population has entered a period of accelerated development. To cope with the increasingly serious aging problem in China, the modern science and technology and the existing old-age service experience and skills with the combination of intelligence as a new way of old-age pension service has started early implementation in our country, and will be gradually popularized. Intelligent pension service is an important way to cope with the aging of the population in our country, played important roles in the pension service system. The appearance and development of intelligent pension service is of great significance, the connotation and nature, the present situation question countermeasure research is very important. Based on the related literature review on the basis of analysis of the existing research of the characteristics and deficiencies, and made a good prospect. In the future development of intelligent pension service will be the old "old in his time, and this paper, the old-aged's providing, teaching".*

**Key words:** Intelligent pension services; Ageing; review

In recent years, the population aging into a period of accelerated development, population age of "double" the trend of pension services to bring huge challenges, to solve the old "old in his time, and this paper, the old-aged's providing, teaching" is gradually become a hot topic of us. Under this background, the intelligent pension services has become a response to ageing research frontier. Intelligent as a new type of old-age pension service situation, emphasizes the use of intelligent means to provide higher quality of care for the elderly. This paper summarizes the research situation of domestic and foreign literature, reviews the intelligent pension services of foreign and domestic policies, intelligent analysis expounds the relevant theories of pension services, finally, the intelligent reviews and outlooks the pension services.

### ***1. The Foreign Development, Intelligent Pension Service***

As earth's wisdom and wisdom city and the development of the intelligent community, intelligent technology has been applied in more and more problems. Ageing as the key issues of common concern to the world now, with the innovation of social economy and the change of population structure, is bound to need the support of modern science and technology. Intelligent endowment platform construction and development, and promote the construction and development of intelligent city, is an effective way to cope with problems, caused the attention of the countries.

The United States was the first to introduce the concept of intelligent design and suitable to the elderly apartment apartments in the country. The United States from 1935 began to focus on the aging problem. The national total population of 300 million or so countries, more than 3500 elderly people age 65 and older. Adhere to the life of old people no longer bitter, live with dignity, the intelligent pension services using the sensor and controller, etc., the environmental temperature and humidity, video monitoring, monitoring, control, such as home appliances control to implement support for the elderly to live independently, and for each individual fitness files on the elderly, the real-time monitoring to the health of the elderly. Compared to the United States has used home monitoring system, old-age care costs about 1000 dollars a week, much cheaper electronic monitoring system.

The daily mail on April 21, 2008, a report quoted life trust, said they plan to build a whole intelligent elderly apartment, make the elderly cannot bound to a nursing home in the future, enjoy high quality of life in their own homes. The intelligent chip embedded in daily living facilities as well as the elderly, the elderly activity monitoring, make old people live in conditions allow independent.

Using intelligent endowment technology to help people save money, is the assets of the elderly have more abundant. In the face of growing trend of an aging society, the British government has announced plans to invest 80 million pounds (\$160 million) to aid the local agencies to use electronic sensors to help the elderly life.

Japan set up the "residential in format ionization promoting association", "residential planning information system" was proposed, its goal is "to the family of all kinds of information related communication equipment, household appliances and home security devices, even to a family of intelligent system, centrally or long-distance monitoring, intelligent control and management, in order to achieve safety, convenience, comfort and diversified information service" the purpose of. Panasonic company in 2001 opened a intellectualized nursing home.

In the 4 floor of the nursing home, the camera lens cover almost every corner, this is very helpful for caregivers understand the patient's condition at any time. All are equipped with electronic lock on the door, can only enter the password correctly. Nursing home, every old man carry an electronic pager, as long as they press the above button, you can call care staff. The company also developed to accompany the old man's pet machine.

Intelligent pension services in these countries in addition to accord with the characteristics of the elderly intelligent design concept is introduced, also embody humanistic care, let old people sharing technology to bring convenience and fun.

## **2. The Intelligent Endowment Service Policy**

Country existing preferential tax policies about pension services, pension service agencies for classes in the nursing home endowment service shall be exempted from business tax, for all kinds of nonprofit endowment service agencies shall be exempted from residential properties, land, property tax, urban land use tax, etc.

The standing committee of the 11th National People's Congress, the 30th December 28, 2012 revision, 72 presidential order, shall enter into force as of July 1, 2013 of the protection of the elderly rights and interests of the People's Republic of China, points out that "to perfect the electronic government affairs information network, community service, the hotline, love the doorbell, and other forms of urban community endowment service information network platform, and actively promote the rural informatization construction, convenient and efficient service for the old."

The development of Chinese aging "twelfth five-year" plan "put forward: to speed up the family endowment service information system construction, home endowment service information platform of pilot work, and gradually expand the scope of the pilot; Aging aging information synergy propulsion mechanism and building information collection, analysis, data platform and improve the monitoring system of urban and rural elderly living conditions.

"Social endowment service system construction plan (2011-2015), also put forward: guided by the demands of community elderly service that occupy the home, which is based on community day care center, according to the principle of overall planning, practical and efficient to adopt for the convenience of information network, the hotline, love the doorbell, health records, service manuals, calling system, a variety of forms such as cable television network, build community endowment service information network and service platform, play to the role of the community is a comprehensive information network platform, for the community elderly people that occupy the home to provide convenient and efficient service ;In pension institutions, to promote to establish the basic information electronic archives, the elderly through an online office for the daily management of endowment institutions, to build information platform supported by the network of institutions, realize that occupy the home, community and institutional pension services effectively, improve the service efficiency and management level.(xinhuanet) 2013. 1

The aging committee, the ministry of civil affairs and other 10 departments jointly issued "about speed up the development of pension services of opinion" pointed out that the pension services is care and nursing care for the elderly life, meet the demand of the elderly special life service industry. Development of pension services in accordance with the policy guidance, government support, the principle of social run, market promotion, gradually establish and improve the on the basis of family endowment and community service as the backing and supplement with institutional pension service system.(the hair [2006] no. 6)

The aging committee office and so on ten departments jointly issued "on the all-round's opinions on family endowment service according to different situation, urban and rural explicitly put forward during the period of" 11th five-year plan "goals and tasks of urban and rural family endowment service work.

In the city, all communities should strive to reach during the period of "11th five-year plan" put up the family endowment service, strive to make the home a complete coverage of pension service network, service facilities, constantly enrich service content and form, to expand our service team, organization and management system and gradually establish and improve the supervision mechanism and perfect.- in the countryside, to relying on existing facilities resources, by trying to make about 80% of the villages and towns have a comprehensive elderly welfare services center, about a third of the village committee and village site has a the old cultural activities and services, and built on the basis of these facilities in meet the demand of the basic services of old people as much as possible.(2008-01-29)

Housing industrialization promotion center in shaanxi province of housing and urban-rural development announced the endowment residential intelligent system construction key points and technical guidelines ".Points out that the endowment of residential intelligent system planning, design, construction must comply with national and local relevant standards, rules and regulations, and endowment of residential intelligent system planning, design, construction and civil engineering planning, design, construction.

State pension for the elderly service puts forward the corresponding policy support, also aware of the importance of the development and promotion of intelligent endowment service.

### ***3. The Mode of the Intelligent Pension Services***

Intelligent pension services should be for the elderly physiological characteristic, psychological information in family as the core, set using the modern communication and information technology and intelligent control technology and so on, to get people to maximise full of all kinds of sensors and network connection, common to build a community residents and residents and residents to communicate with external multimedia integrated information interaction system of society, for the elderly to provide a suitable for their safety, comfortable, convenient and efficient living environment, meet the needs of the elderly life.

Endowment service provision, should take into account the aspects of content. A cost, reasonable construction. The elderly is the main part of the intelligent endowment service, as a pure consumer groups, considering the profitability, intelligent pension services should be intelligent endowment service construction cost control in a reasonable scope, as much as possible and to get the low cost. Second, the operating system of simple and practical. Pensions Is full coverage, provide a wide range of intelligent equipment, equipment maintenance more difficult. A simple and easy to install and maintain, provides convenience for the life of old people. Four, high reliability. Intelligent elderly service must have two aspects of function, equipment reliability.

Intelligent endowment service system through the installation of sensors in the living environment, various activities as well as outdoor activities area to install monitoring and emergency call system, formed the old safety monitoring system, and realizes the intelligent pension services of wide coverage, that every man can enjoy the intelligence service.

### ***4. Intelligent Endowment Service Related Theory***

According to the national population development strategy research report predicts that China's working-age population will reach the peak level of 1.01 billion people in 2016, the United Nations has predicted that China's working-age population will peak around 2015.2015 years later, China's working-age population scale and population proportion will decline, by 2015 the two index dropped to 995.819 million and 72.7%, respectively, further down to about 960.082 million people and 68.9% by the year 2030.The fastest working age population decline phase will appear in the 2035 ~ 2035, average annual working age population changes in scale and speed of 10.251 million - and - 1.15% respectively.

China's aging society is different from other countries, the report calls this "of the population aging society with Chinese characteristics". In addition to large elderly population, fast growth, empty nest and disability difficult old man outside more, China's aging population is also presented prior to industrialization, and the family miniaturization, elderly dependency ratio accompanying rapid rise, etc.

China has the traditional concept of "support". But when two of the one-child family to four or more old man's pension liability, whether in the economy or energy, to young people "is difficult to bear.When social change to break the traditional family pension on the basis of the concept of pension and the pension mode must be changed. Then, looking for a new high efficiency and low cost way of pension become inevitable.

At the same time, according to the psychology of old people learned that psychologists to the psychological needs of old people divided into physiological needs, security needs, emotional needs, to adapt to the demand, the independent needs and self-actualization needs. The body health, family harmony, social stability, material abundance and a positive attitude and willingness to live independently, is a major aspect of the psychological demand of the elderly. A survey about the old man is willing to live with their children: as long as the economic independence, most old people do not want to dwell with the children. And in the survey also found that older people choose to live with their children in its own cultural degree: 80% illiterate no culture of the old man is willing to live with their children, High school degree of old person choice and children living with about 50%;The old man with higher education only 40% of those who want to live with their children. And in the survey also found that the independent requirements and the stronger consciousness of old man the more their psychological health, more happiness in later life.

The elderly living independently consciousness enhancement, the lack of labor force and the change of the traditional family foundation, support the development of intelligent pension services.

### ***5. Comment and Prospect***

Intelligent endowment service theory is analyzed using intelligent technology provides a new theory of pension services, provides a new way of pension services. Intelligent endowment service theory based on the Angle of view to study the pension problem such as psychology, demography, the information network technology used in pension services. Focus on the application of relevant technology to improve the service quality of provides for the aged, for the society to be able to cope with high efficiency and low cost problem provides a realistic theoretical framework.

At present, the intelligent endowment service theory is still in development, cases and the empirical research on intelligent endowment service in rich gradually, but the theoretical research is relatively insufficient, careful complete system has not yet formed. Yao Lei and Sun Zegong virtual pension services to make analysis of the specific, but not suitable for popularization theory is put forward. Ya - Huei Wu and L.M. Camarinha - Matos is specific for the elderly to provide intelligent services technology to explore, not with the intelligent operation of pension services.

With the deepening of the aging population as well as the further development of information technology, using intelligent methods supply the high quality service for the elderly will be the trend of The Times. Through practice of further research and the national policy research, is helpful to find intelligent raise to ascend The reality of the old service path. With the aid of outside the development of the relevant theoretical knowledge and technical service of continuous innovation, in the analysis of intelligent endowment of low-cost services provide is of great realistic significance.

Intelligent development of pension services, the government how to guide, enterprise how to development, the social support system and how to intervene, pension services, the proportion of the cost of the case what burden, how to play the advantages of intelligent pension services, these are all worthy of our attention and further in-depth study of the problem.

## References

- [1] of the state council on forwarding the aging committee office and the national development and reform commission and other departments notice about the opinions of speed up the development of pension services [J]. The gazette of the state council of the People's Republic of China, 2006, 10, 35 and 36.
- [2] national population development strategy research group. The national population development strategy study [J]. Journal of population studies, 2007,01:1 to 10.
- [3]. The aging committee office, the national development and reform commission, ministry of education, ministry of finance, the ministry of civil affairs, ministry of labor and social security, the ministry of construction, ministry of health, population and family planning commission, administration of taxation on comprehensively advancing the opinions of the family endowment service [J]. Journal of shandong province labor and social security, 2008, 05:42-43.
- [4] Yao Lei. Science and technology, hui "old" model - virtual nursing home [J]. Journal of shallow of "model" in lanzhou, gansu province science and technology, 2013 01:11-13 + 52.
- [5] Sun Zegong. Urban elderly virtual nursing home service pattern research [D]. Suzhou university, 2012.
- [6] said. The old community case appreciation [J]. Chinese hospital buildings and equipment, 2011 cutflower production potentials: 34 and 35.
- Yan youth. [7] analytical undertaking development "twelfth five-year" plan ", "China [J]. Journal of social welfare, 2011, 12, 13 and 16.
- [8]. Endowment residential intelligent system construction key points and technical guidance [J]. Journal of housing industry, 2012, 11:63-66.
- [9]. Issued by the state council general office on social endowment service system construction plan (2011-2015) to inform [J]. Selected works of judicial business, 2012,09:15 to 23.
- [10]. The elderly rights and interests protection of the People's Republic of China [J]. Bulletin by the standing committee of the National People's Congress of the People's Republic of China, 2013,01:30 to 37.
- [11] Wang Yukai, gao xinmin, Wu Hao. Information-based propulsion system and its enlightenment to our country abroad [J]. Journal of administrative reform, 2010 practices: 49-54.
- Jinlong, [12] Wang Jinfang. The elderly mental health and social support the literature review of research [J]. J of bo literature (classical teaching center), 2013, 12:302.
- [13] Dan Ding. Sensor technology for smart homes Dan Dinga [J]. Journal Maturitas, 2011, (69) : 131-136
- [14] Nazmiye Balta - Ozkan. Social barriers to the adoption of smart homes [J]. Energy Policy, 2013
- [15] the Advanced Metering Infrastructure, Energy Management, in the Home and Electric Vehicles, 2010
- [16] N, K, Suryadevara. Wireless sensors network -based safe home to care elderly people: Behaviour detection [J]. Journal of sensors and Actuators A: Physical, 2012, (186) : 277-283
- [17] L, M, Camarinha - Matos. Intelligent mobile agents in elderly care [J]. Journal of Robotics and Autonomous Systems, 1999, (27) : 59-75
- [18] Ya - Huei, Wu. Designing robots for the elderly: the Appearance issue and [J].2012,(54):121 - 121
- [19][http://money.163.com/11/1002/07/7FBIE23700253B0H\\_5.html](http://money.163.com/11/1002/07/7FBIE23700253B0H_5.html)
- [20]<http://www.docin.com/p - 508635398. - html>
- [21][http://news.xinhuanet.com/edu/2011-10/26/c\\_122197926\\_3.htm](http://news.xinhuanet.com/edu/2011-10/26/c_122197926_3.htm)
- [22][http://money.163.com/11/1002/07/7FBIE23700253B0H\\_5.html](http://money.163.com/11/1002/07/7FBIE23700253B0H_5.html)
- [23][http://blog.39.net/chibianxue/a\\_6972418.html](http://blog.39.net/chibianxue/a_6972418.html)
- [24][http://guoqing.china.com.cn/2012-12/24/content\\_27497779.htm](http://guoqing.china.com.cn/2012-12/24/content_27497779.htm)
- [25]<http://www.lawtime.cn/info/gongcheng/gcjflw/2011090634431.html>
- [26]<http://jnjd.mca.gov.cn/article/zyjd/gzdt/201303/20130300423766.shtml>