

**Modeling and Analysis of Material Supply
Network Based on Big Data Packed with
Traffic**

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ABSTRACT

- Big data is an important tool for intelligent supply, which can effectively improve the efficiency of the existing installed security.
- This paper uses complex network analysis and modeling method, establish the whole supply network model is put forward in the future is based on business data, some optimization targets on the basis of this, to provide a reference for further improving our army is security efficiency

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EXISTING SYSTEM

- foundation of professional logistics service, is directly related to the officers and soldiers in battlefield protection and survivability, affect the battle effectiveness, cohesion increased, in relation to the prestige and the army.
- Supply network is an important foundation to put security, because is materials from the manufacturer to the rear warehouse, and then distributed to soldiers in the hands of, generally go through long distance transportation

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DISADVANTAGES

- ▶ Supply network is an important foundation to put security, because is materials from the manufacturer to the rear warehouse, and then distributed to soldiers in the hands of, generally go through long distance transportation.
- material supply network topology is the rear munitions warehouse sorting ability and in the transportation service planning and so on factors have important influence on the security.

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PROPOSED SYSTEM

- ▶ power system, economic system, Internet system, ecological system, super large scale integrated circuit system, etc., are not only large in scale, complex in structure, but also showing complex spatial and temporal dynamic characteristics. When people study them, it is difficult to describe the inherent law of the whole system by individual individuals in the research system .
- ▶ Because these systems are not simply integrated by a single individual, but have a close interaction relationship, these close interactions are necessary conditions for the realization of each function of the whole system. If these individuals are regarded as nodes in the network, and the connections among individuals are regarded as edges in the network,

ADVANTAGES

- complex network modeling and analysis based on the data in the graph theory, statistics, game theory, power system and other research methods, using the idea of data mining that network structure complexity, node complexity, node structure and the interaction between the network and the interaction between. Complex network discipline provides a powerful tool for the study of complex systems,

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HARDWARE REQUIREMENTS

- ▶ Processor :Intel Pentium IV 1GHz
- ▶ RAM :256MB (Min)
- ▶ Hard Drive :5GB free space
- ▶ Monitor :1024 * 768, High Color inch
- ▶ Mouse :Scroll Mouse(Logitech)
- ▶ Keyboard :104 keys

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SOFTWARE REQUIREMENTS

- ▶ OS : Windows XP/7/8
- ▶ Front End : Visual Studio 2010/ netbeans 7.1
- ▶ Back End : SQL Server 2005/ heidisql 3.2
- ▶ Browser : Any Web Browser

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CONCLUSION

- ▶ With the arrival of the era of big data, how to make use of big data technology to enhance the precision guarantee, fine management and precise service ability has become a hot research topic in the future .
- ▶ In this paper, the complex network analysis and modeling method is used to establish the whole network model of the installed supply based on the business data. Based on this, some optimization objectives are put forward, which can provide reference for further improving the efficiency of our army.

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