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Research and Application of Fault Handling Technology of Multiple Information Knowledge Atlas

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Abstract

The computer technician in order to faster to solve the data mining, information processing, data sorting, summary such as content, by adopting multivariate information knowledge mapping technology, effectively improve the efficiency of the daily work of technical staff, at present, the multivariate information knowledge mapping technology has been applied in the fields of intelligent q&a, intelligent search. However, in the application process, the multivariate information knowledge graph technology can not only quickly screen big data, but also build an Internet modeling platform, so that more users can understand the multivariate information knowledge technology, shorten the data query time, and improve the accuracy and authenticity of data acquisition. This paper analyzes and studies the technical methods used in the process of Internet information failure by the technology of multiple information knowledge graph.

Keywords

Multivariate information knowledge graph; Fault handling technology; Research and analysis

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1. Technical definition of multi-information knowledge atlas

Multivariate information knowledge map belongs to a common form of Internet information technology, as a kind of common data processing structure, by using multivariate information technology information technology personnel, formed a variety of different structure forms, and aimed at these forms to build network diagram structure, so as to solve data search, data display, data processing, etc. [1]The Internet information technologists can reduce the scope of data screening as much as possible by using the multi-information knowledge graph technology, so that the content of the screened data can meet the needs of users as much as possible. The specific operation process is shown in Figure 1 below[2]:

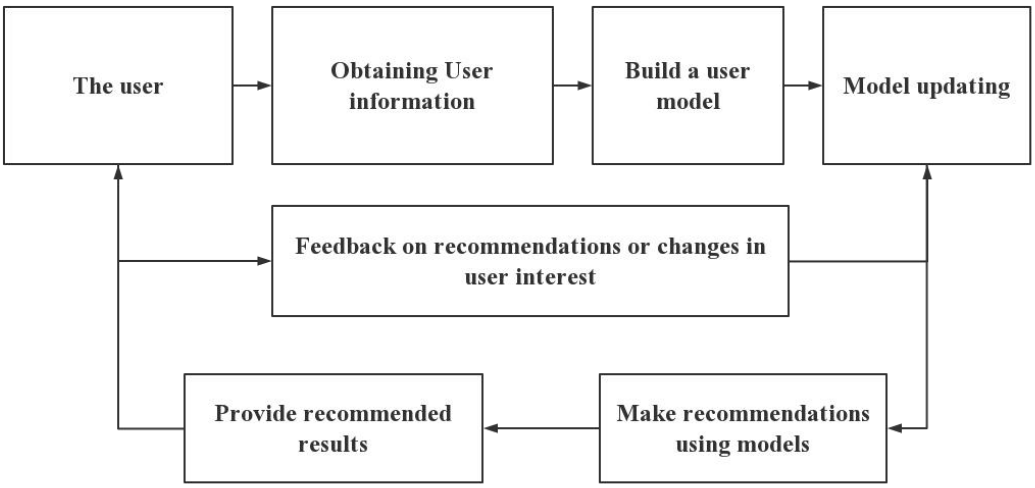

FIG. 1 Operation process of knowledge atlas of multiple information

2. Multi-information knowledge atlas fault processing technology method

2.1. Learn from previous work experience

Internet information technology personnel in the research and development of multivariate information knowledge mapping technology, in order to ensure the accuracy of the technology provided, authenticity, validity, through the fault handling technology combined with multivariate information knowledge mapping technology, effectively avoid the user filter data information, data information matching error, and so on and so forth. When the user use the multi-purpose information knowledge map technology screening related data information, the screening of the data is not needed for the user, the user can be the first time to feedback the screening of the obtained data, the Internet information technology personnel can through the background fault processing technology, came to what is wrong to judge, so as to find the cause of the problem. In addition, when the Internet information technology personnel in the process of repair the failure problem, first of all, will be based on past experience, to analyze the fault location, and check the key monitoring information, thus to exploration, fault location for different fault location take corresponding emergency response measures, to ensure that the overall process in line with the provisions, the last of the fault parts for repair[3.4].

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2.2. Intelligent decision support technology

In order to ensure the authenticity and accuracy of the data and shorten the user screening time, the Internet information technology personnel combined the intelligent decision support technology and the multi-information knowledge graph technology to construct perfect background data. In the initial stage of construction, intelligent decision support technology mainly supervises the Internet data background by means of data collection, data pretreatment, data processing and construction of specific knowledge graph. Information technology staff mainly from the following several levels for data regulation: (1) the foundation layers: base layer as the name implies is to provide accurate basis for the upper data storage capacity, computing power, processing power to the data, images, audio, video, and web content for storage, so that users subsequent through search. (2) Data layer: The main function of the data layer is to make public the filtered data content. Second, when the data is made public, it needs to be approved by professionals in the field to ensure that the data is true, accurate and valid. Third, the need to take persistent storage of data information in the database. Fourth, any data and information provided by the Internet platform are collected and sorted out by professionals. (3) Analysis layer. The analysis layer is different from the above two layers. The analysis layer mainly constructs the atlas of the obtained data information on the premise of ensuring the accuracy of the data information, and establishes the model on the obtained data atlas. (4) Application layer. The application layer mainly refers to the operation of the client. See Figure 2 for details[5]

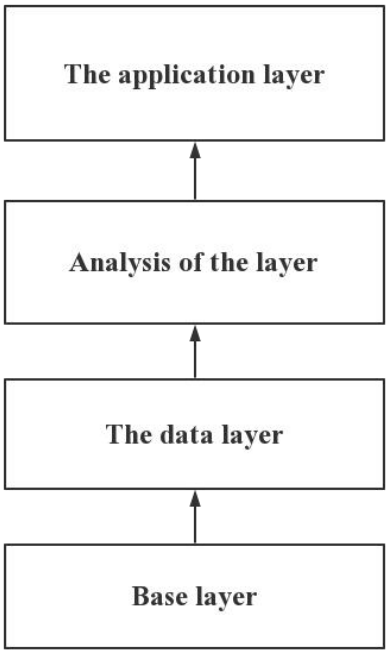

FIG. 2 Intelligent decision support technology hierarchy diagram

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2.3. The role of anti-fraud identification in telecom field

Popping up as, telecom fraud case, the network of telecom fraud has become a kind of crime form of low cost, high income, telecom fraud team mainly through fraud calls, kill pig plate, investment, loans and so on forms in the public's line of sight, and by sending a message authentication code in the form of the victims to defraud money and feelings. Nowadays, telecom fraud has become one of the key cases detected by network police. Internet management in order to effectively enhance the security of network, by using multivariate information knowledge to build graph, when the victim receives a strange phone, network background will automatically identify the unknown number, type and the number for identification, automatic screen number registered, registered enterprises and other relevant information, to ensure that the victim is deceived. In addition, the Internet information technology personnel can also through the way of telephone number for clustering, to identify number group, if the source of the number of the registrant, registered, belong to a person, then to phone fraud probability will be higher, the push to change the phone can be calculated whether a fraud phone, specific see graphic as shown in figure 3:

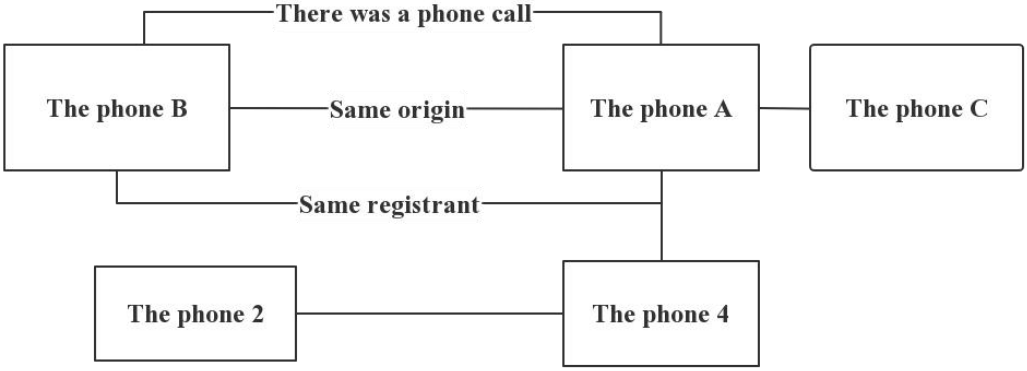

FIG. 3 Schematic diagram of anti-fraud in telecommunication field

3. Conclusion

This article mainly through to the multivariate information knowledge map of network failure problem analysis research and analysis, the solution when the Internet information technology background data error, information derangements, fraud, and so on and so forth, multivariate information knowledge map technology will be the first time on the filtered data information, the user's losses to a minimum. The Internet information technology personnel knowledge map by using multivariate information technology to build a secure network platform, in order to meet the demand of mass user's life, study and work, every data information of the user's selection is through information provided by the relevant industry professionals, technical personnel in order to ensure the truthfulness, accuracy and reliability of data information, Open background comment function, so that more users can see the usefulness of information.

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Research on intelligent fault tree of rolling missle based on joint learning of entity and relation of knowledge graph:19ZR1423800

References

[1] Helen lam, yuan-zhuo wang, Gu Yantao, etc. An Overview of Knowledge Fusion methods for Network Big Data [J]. Chinese journal of computers, 2017,40 (1):1-27.

[2] xiao-hui Yang, goodwinj, hai-bin zhang, etc. Knowledge Graph Representation Learning Algorithm based on Symbol Semantic Mapping [J]. Journal of computer research and development, 2018,55(8) :1773-1784.

[3] Qiao Liu,Minghao HAN , Liuyi Jiang, et al. Relationship Inference Algorithm based on Double-level Random Walk [J]. Chinese journal of computers, 2017,40 (6) : 1275-1290.

[4] yan-yong guan, hong-kai wang, xu method. Obtaining Interval Decision Rules in Sequential Decision Information System [J]. Control and decision, 2014,29 (9) : 1611-1616.

[5] Jianyi GUO , Zhen LI,Zhengtao YU , et al. Extraction and Relationship Prediction of Domain Ontology Concept Instances, Attributes and Attribute Values [J]. Journal of nanjing university: natural science, 2012,48 (4) : 383-389.