

PROJECT OF DECISION MAKING SUPPORT SYSTEM FOR VOTER IN THE FORM OF WEB-SITE

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The constant innovations, rapid development of social progress, opening of new and new technological novelties is our present time, in which there is such a concept as a system for decision support (DSS). The main objective of this system is to help a person in making any decision. Classification systems occupies a special place in these types of systems. The result of such a system is extremely important, because it is obtained fast enough and a person does not need to make colossal effort. Classification systems distribute objects according to certain classification criteria. An important task in the classification of objects is the construction of the feature space, or in terms of a theory of pattern recognition - the original description of the object. When forming the initial description of the object the task may be complicated by the fact that a posteriori selected features can be distributed across heterogeneous groups. In such cases, the common processing of given groups in order to determine the degree of influence of each feature on the classification process. In many cases due to the significant heterogeneity and multiple scopes of features given problem is complicated and its solution depends on classification means that are used, and the processing algorithm of input parameters. It is advisable in such cases to use facet classification.

In the process of creation a DSS for the voter in the form of web-site it is needed to consider the level of control of access to the system and the maximum updating of information that relates to the political forces that are considered in the system. Every able-bodied citizen of the state upon reaching the age of discretion gets the right to vote, according to which has the opportunity to participate in elections of the country. The election of the head of state usually does not cause major difficulties. Another thing, when it is the elections to the Verkhovna Rada. In the elections to the Parliament is involved quite a large number of political parties and blocks from which is quite difficult to choose such a concrete political force that would be in the interests of the voter. The possibility to group a list of political parties in accordance with the interests of the voter may simplify the whole process of voting. The choice of the voter will be maximum correct and justified, because the voter will give the selection criteria on his/her own.

Nowadays in various fields of human activity is accumulated a huge amount of information about the various tangible and intangible entities, their properties, behavior and relations. Quite often a problem may arise concerning the speed of finding the right information, according to defined criteria and objectives, if processing of large data amounts and compiling of various reports kinds are considered. A large amount of data can contain heterogeneous information that makes the search extremely long and the time expenses for its implementation are completely unproductive, especially in systems of a political nature, where democratic structures function and democratic procedures have become the norm. The problem lies in the correct choice of the population and the individual voter in particular such a democratic structure that would meet all the demands. Constant changes and various innovations in political systems happen fast enough and not predictable, therefore constant monitoring of all the news in this area is required. The functioning of the DSS website for the voter should be based on absolute control of access level. The diversity of political structures and only their name does not give a complete picture of their descriptions, that in turn absolutely does not improve the selection made by the person who is the participant of the electoral process. When processing such data can be useful to utilize the grouping by requisites-features and performance using a particular system. Such a representation is possible in the system of decision support for the voter, which structurally uses the website and works on the principles of grouping, which occurs on the basis of systems of classification and coding.

To solve the problem of decision making by the voter the functioning of the system of decision support for the voter in the form of a website is considered. The creation of a system with a maximum possible control system of system user access rights is shown. The practical significance of the developed system lies in expanding the sphere of applications of the developed methods and automatic classification systems and the division of objects according to facet features.

Proposed facet formulas are able to work with text arrays of large dimension, the developed system allows to improve the voting process, without making user colossal effort and much time. All this makes possible the application of these developments data to a wide range of similar tasks. The effectiveness of the

developed system of support of decision-making is demonstrated by the example of classification of political parties, where the classification attributes are the programmes of political parties.

Further research will be devoted to scientific search of expanding the scope of applications of developed and proposed methods in the design of systems of another type.

The general characteristic of the system of decision support for the voter in the form of a website is given. The principles of operation of the DSS for the voter through the use of a classification approach are described. The process of developing a system of control and management of access rights for users of the website is shown.

Keywords - DSS, web-site, classification, access control.