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Theoretical and System Technical Achievement of the Internet Based Open Source Intelligence

summary of thesis for the doctor's degree (PhD)

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Abstract

In the **first chapter** the place and role of open source intelligence is discussed in the systems of intelligence. A basic terminology of open source intelligence is summarized as well .The reasons for the revaluation of open intelligence are analysed. The possibility of obtaining relevant information from open intelligence is also proved here. Certain resources and their features are also scrutinized .It is also proved that through the internet other resources of open intelligence are available at a great extent so the internet and its services are apt for obtaining open information in-building into the system of intelligence.

In the **second chapter** those developments are introduced which are targeted to improve the present slow transmission speed and narrow bandwidth of the internet. Due to the developments the internet is becoming a fast wide bandwidth medium which is apt for the satisfaction of human communication, obtaining information both generally and culturally and for entertainment.

The knowledge and features of internet search techniques are also summarized. It is also examined what kind of developments are used for the improvement of these techniques. It is determined that due to the results of developments the search techniques may become such tools which enable an effective search on the internet.

In the **third chapter** the structure of the system model designed by the author of this thesis is introduced. The feasibility of the connecting of the system to the internet is dealt with in detail including the security problems of the system. The role of the individual system technology elements performed in the model and their detailed operation is introduced. A recommendation is made for the quantity of the devices and the number of human resources. The possibilities of the use of the model in the system of intelligence is also elaborated. An approximate estimation of expenses is also defined.

In the **fourth chapter** the results of the research is summarized.

New Scientific Achievements

1. The author of this thesis has been the first to summarize and systematize the knowledge in connection with internet based open resource intelligence. This work can be considered a stopgap in the territory of Hungarian scientific literature referring to open resource intelligence.

2. Having analyzed the development, services, techniques, tools and tendencies of development of the internet the author of this thesis has recognized and proved that the toolbar of internet-based intelligence can be adapted to open information gathering.

3. Analyzing the procedures in connection with open intelligence, the toolbar of its feasibility, the necessary language and the professional knowledge necessary as well as the technical and professional intelligence it has been proved that internet-based open intelligence requires such preparedness and knowledge from the staff executing it which justifies considering it as new specialization within open intelligence.

4. A new internet-based intelligence system model has been worked out which due to its system technology formation is able to search for the necessary sources of information, the automatic collection of information, their selection and procession as well as on the basis of established connections the expedition of the processed materials for the users.