

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР**

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“TO LIVE IN A SAFER WORLD”

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PROTECTION OF INFORMATION: MAIN PROBLEMS AND DECISIONS

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At the present stage of development of the world the role of information technology increases and its introduction into all areas of activity, which significantly changes the structure of society.

Information field is a collection of information, information infrastructure, entities engaged in the collection, creation, dissemination and use of information and appropriate regulation of social relations.

Under the influence of the information flow significantly changes the content of the interaction processes of joint activities. Competition becomes particularly noticeable because of the struggle for achieving information superiority, for possession of more developed information resource that offers better control over information resource opponent.

As information resources of society (state, businesses and individuals) are of some value with the appropriate material representation and require protection from a variety of influences in its essence, which can lead to a decrease in the value of information resources, information security, reliability and safety are an urgent problem.

Information should retain the confidentiality, integrity, availability. Also, it should be reliable and safe.

Violation of protection of computer systems, and thus a threat to the information comes from such causes as unauthorized access, viruses rooting, technical failure of equipment network purposeful actions of personnel and human error (low qualification). Hence, the main hazards to information are caused by human activity.

There are three main types of problems related to the protection of information in computer systems. Firstly, its interception in violation of privacy. Then, the problem of updating information, when the original message is changed or completely replaced by others and sent to the recipient. And finally, the problem of authorship information substitution that enables electronic fraud.

Protection of electronic information can be obtained only on the basis of the use of cryptographic methods that address the most important problems of automated processing and secure data transfer. These modern high-speed cryptographic transformation techniques can keep the original performance of information systems.

Requirements of information security have led to non-traditional ways to protect digital information, one of which is the authentication of electronic information in circumstances where the parties exchange information do not trust each other. This problem is related to the creation of digital signatures.

The possibility of information security is provided by such tools as copyright or protection orders online stores via video-confirmation. This can be implemented by post as well as online.

Problems of information security is widely considered at the state level. In Ukraine, protection of information is provided by the Constitution of Ukraine, laws of Ukraine "On Personal Data Protection", "On Information", "On Access to Public Information", the Civil Code, international normative legal acts ratified by the Government of Ukraine and others.