

# **DIGITAL LIBRARIES: MULTIMEDIA COMPONENT**

**Ostap Malynovskyi**

Information Systems and Networks Department, Institute of Computer Science and Information Technology,  
Lviv Polytechnic National University, S. Bandery Str., 12, Lviv, 79013, UKRAINE

The aim of the article is to determine the feasibility of the use and importance of multimedia technologies to improve efficiency of digital libraries as a basis for the use of the technologies of an information age and qualitative changes in all spheres of life.

The task of the article is to describe the main features of a multimedia technology in the e-libraries to meet user needs relevant and accessible information.

The object of the article is a multimedia and information service for the users in a digital library.

The subject of the article is the digital libraries and their use to satisfy the information needs of the users.

A scientific novelty lies in a complex defining and formulating of the ways of the processes and methods improvement for users service in an electronic library with a multimedia technology and the role of a multimedia component, which is oriented for use in these libraries.

The scientific results of this research allow forming the practical methods to improve an efficiency of the digital libraries in the users information service.

The contribution of the author consists in a complex system analysis of a multimedia component in the users information service system of an electronic library and an efficiency of the use a multimedia in the major work processes of such libraries.

Multimedia technology was considered as a factor of qualitative changes of informational environment in a digital library. It has been observed the increasing tendency of the use of digital libraries, as well as the use of information technologies in the conventional and automated libraries. It was emphasized that the key processes in the digital libraries have a significant role in the information era and in the society of the 21st century. The basic tasks of combining the digital libraries in general media space were formulated. It was proved that multimedia technologies greatly improve the library and information services and provide an improvement of the environment organization in a digital library.

Keywords – multimedia, digital library, information technology