

## *Summary*

The dissertation discusses the role of the information and retrieval language (the Polish acronym: JIW) in the visual communication system (the Polish acronym: SKW) of an academic library. The subject of the research was JIW as a component of SKW from the perspective of information science and linguistics. The subject of the dissertation has not been studied in this approach so far. The way in which JIW functions in the complex organizational structure of a scientific information center as a compatible part of the library information system managing the information architecture of a modern hybrid library with open access (the Polish acronym: WD) to collections is characterized. The genesis of the creation and the process of designing and implementing IRL in the Scientific Information Center and Academic Library (the Polish acronym: CINIbA) is discussed. Particular attention is paid to the functions performed in SKW by JIW. The dissertation presents the thesis that the information and retrieval language is a key component of the visual communication system of an academic library.

In order to prove the adopted thesis, a case study was used. The case study covered the SKW of the Scientific Information Centre and Academic Library in Katowice. Survey research was carried out in this library, and two types of experiments were also carried out. The results of the survey and experiments were supplemented with reflections formulated on the basis of the analysis of literature and conclusions from own observations conducted in the years 2012–2018, covering the reading behaviour of users of the Scientific Information Centre and Academic Library. The results of these activities confirmed the thesis about the key role of information and search language in the visual communication system of the academic library. The following research methods were used: analysis and criticism of literature, which included publications published in the 21st century, and comparative methods.

The dissertation also discussed selected library classifications of scientific libraries in Poland and around the world. Definitions and typologies of JIW are presented, with particular emphasis on the Universal Decimal Classification, as the basis for developing JIW in the CINIbA's SKW. The added value of the dissertation is the formulation of new definitions of JIW and SKW for the purposes of researching the topic. The open access information and search language (JIW-WD) is defined, and an explanation of the concept of a visual communication system of a library with open access to collections (SKW) is proposed. The dissertation contains guidelines and recommendations for designers of visual communication systems in libraries.

**Keywords:** hybrid library, The Scientific Information Centre and Academic Library, CINiBA, information and retrieval language, visual communication system, Universal Decimal Classification, UDC, information visualization, Infovis.