

METHOD OF CALCULATING THE COEFFICIENTS OF SEMANTIC PROXIMITY BETWEEN SCIENTIFIC ARTICLES

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The article describes the method of calculating the coefficients of semantic proximity between scientific articles based on the use of semantic analysis of the text elements, as well as analysis of the structural elements of a scientific article. The scientific article is presented as a fuzzy set whose elements are the terms where each term is assigned a grade of membership, which characterizes the degree of its importance for this document. The described technique offers a new way to calculate the weight coefficients of the terms in the text. It also introduces a metric measuring the distance between scientific articles, which takes into account implicit semantic links between the compared documents. To obtain semantic characteristics of the terms in the study Wiktionary is used as a thesaurus.

Keywords: semantic analysis, a measure of proximity documents Wiktionary, the semantic net of a document, fuzzy sets.

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