IMPLEMENTATION OF ALGORITHM *LEVENSHTEIN DISTANCE STANDARD* THE FOR DETECTING WORD WRITING ERRORS IN SCIENTIFIC WRITING WORKS

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ABSTRACT

Writing essays by students often found several errors. These errors include sentence structure errors, insertion of one letter. One algorithm that can be used to detect writing errors is levenshtein distance. The purpose of this study is to determine the process of designing a system for detecting errors in writing standard words in sentences in scientific papers, knowing the process of implementing the algorithm levenshtein distance to detect errors in standard words in sentences in scientific papers and detecting errors in writing standard words in sentences in scientific papers using the algorithm levenshtein distance. The research design consists of entering sentences, doing preprocessing, calculating the levenshtein distance, displaying calculating the similarity value, and corrections or suggestions for standard words. The principle of the levenshtein distance algorithm is to compare two words, namely, from the initial word to the target word, so that the word distance is obtained. Based on the principle, levenshtein distance the standard word error detection system can run with arithmetic operations of adding, deleting, and changing words. The results of the analysis show that input word errors can be detected with results showing red words as non-standard words and suggestions for improving words in the form of standard words. So it can be concluded that the detection system can be applied with the algorithm levenshtein distance.

Keywords: **detection system, levenshtein distance algorithm, word error**