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Abstract: The aim of the paper is to analyse the statistical regulation of the type
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characteristics.

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How do Local Syntactic Structures Influence Global Properties in Language
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The distribution of parts-of-speech in Russian texts 59-69

Abstract: This paper contributes to testing the hypothesis that many linguistic units display a stratified behaviour, which is a reason for data inhomogeneity and makes it difficult to model them using classical probability distributions such as the Zipf-Mandelbrot, the Zipf-Alekseev, or the hypergeometric distributions. Specifically, the distribution of parts-of-speech in a large Russian text corpus is studied. Instead of a probability distribution, the Popescu function is applied, which can be fitted to stratified rank distributions. The results support the hypothesis and the usefulness of the new model.

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History of Quantitative Linguistics

Karl-Heinz Best
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XLIII. Josef Nowak (1848)
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