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Nora Heinicke
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Emmerich Kelih

Modelling polysemy in different languages: A continuous approach

Abstract. This paper investigates the frequency of polysemy in six genetically unrelated languages. It can be shown that these distributions can be described by a power model, developed by the Estonian linguist Juhan Tuldava. Furthermore, interrelations between descriptive parameters of the analyzed empirical distributions have been obtained. Special attention has been paid to the behaviour of the parameters of the theoretical models, taking into account different influence factors (language analyzed, sample size, parts of speech).

Marina Knaus

Zur Verteilung rhythmischer Einheiten in russischer Prosa

Abstract. The purpose of this paper is to present some further evidence for the validity of the well-known law concerning the distribution of language entities of different lengths in texts. To this end it is shown that in 20 Russian texts of Tolstoj the length of rhythmic units abides by the 1-displaced binomial distribution.

Solomija Buk, Ján Mačutek, Andrij Rovenchak

Some properties of the Ukrainian writing system

Abstract. We investigate the grapheme–phoneme relation in Ukrainian and some properties of the Ukrainian version of the Cyrillic alphabet.

Zuzana Martináková, Ioan-Iovitz Popescu, Ján Mačutek, Gabriel Altmann

Some problems of musical texts

Abstract. The aim of this article is to find fixed points and regularities in musical texts, set up statistical tests for their comparison and observe their development. The analysis is based on rank-frequency distributions of pitches. The following indicators are described: the $h$-point and its angle, the $a$-indicator, the $H$-point and the $H$-coverage having an affinity to the golden section, and the $A$-ratio. Different
curves capturing the trends are proposed. The analysis has been performed on 266 compositions of 12 European composers from Palestrina to Ligeti.

**Peter Grzybek, Emmerich Kelih, Ernst Stadlober**

The relation between word length and sentence length: an intra-systematic perspective in the core data structure

Abstract. Word length and sentence length are systematically organized in texts and corpora. In recent attempts at the synergetic modeling of the relation between sentence length and word length, the importance of distinguishing intra-textual from inter-textual approaches has been emphasized. The present study focuses on the intra-textual level: with a particular emphasis on different text types, it is shown, under which conditions processes of inter-level self-regulation are operative, and when they fail to be efficient.

**History of Quantitative Linguistics**

Karl-Heinz Best

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XXXIII. Adolf Busemann (1887-1967)

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