

# **Glottometrics 39**

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# Glottometrics

**Glottometrics** ist eine unregelmäßig erscheinende Zeitschrift (2-3 Ausgaben pro Jahr) für die quantitative Erforschung von Sprache und Text.

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# Glottometrics 39, Contents and Abstracts

*Yanni Lin, Haitao Liu*

## **A Bibliometric Analysis of *Glottometrics***

**1-37**

**Abstract.** *Glottometrics*, one of the most authoritative journals in quantitative linguistics, has celebrated its 17<sup>th</sup> anniversary in 2017. In this paper, we conduct a bibliometric study of this journal. By statistical analysis of the basic data in all the 37 volumes published so far (2001-2017), we explore the publication profile, contributors, research content, and citations based on the self-built library and corpora. Results provide a glimpse of development and research status of quantitative linguistics. Suggestions of further improvements for this journal are also proposed.

*Ramon Ferrer-i-Cancho*

## **The Placement of the Head that Maximizes Predictability. An Information Theoretic Approach**

**38-71**

**Abstract:** The minimization of the length of syntactic dependencies is a well-established principle of word order and the basis of a mathematical theory of word order. Here we complete that theory from the perspective of information theory, adding a competing word order principle: the maximization of predictability of a target element. These two principles are in conflict: to maximize the predictability of the head, the head should appear last, which maximizes the costs with respect to dependency length minimization. The implications of such a broad theoretical framework to understand the optimality, diversity and evolution of the six possible orderings of subject, object and verb, are reviewed.

*Sergej Andreev, Mihaiela Lupea, Gabriel Altmann*

## **Belza-Chains of Adnominals**

**72-86**

**Abstract.** Russian texts are rewritten in form of adnominals, everything else is omitted. Then Belza-chains, i.e. uninterrupted sequences of sentences containing the given class of adnominals, are stated and their length is computed. One obtains a distribution which can be modeled. Russian text are characterized and compared.

*Denys Ishutin, Hanna Gnatchuk*

## **Ukrainian Compounds in the Texts of Computer Science**

**87-91**

**Abstract:** The present investigation deals with a quantitative study of Ukrainian compounds in Books “The Fundamentals of Programming” (Osnov’ Programuvannja) by T. V. Kovaljuk (2005) and “Informatics” (Informatyka) by J. Ryvkind (2010). We concentrate our attention on a quantitative study of Ukrainian compounds by taking into account their types in computer texts. In such a way, the material of our study is represented by 2 books “Osnov’ programuvannja” and “Informatyka” belonging to the sphere of the Exact Sciences. Each page of the book in question has been studied in order to reveal the behavior (models) of Ukrainian compounds in the text of Computer science.

Book reviews

**Kubát, Miroslav.** *Kvantitativní analýza žánrů [A Quantitative Analysis of Genres]*. Ostrava: Ostravská univerzita, 2016, 141 pp. Reviewed by **Michal Místecký** **92-93**